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# RICE LEWIS & SON

LIMITED




## ILLUSTRATED CATALOGUE

OF

# GENERAL HARDWARE

# TORONTO

CANADA

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TORONTO, CANADA

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# THE MORSE TWIST DRILL AND MACHINE CO'S

## TAPER SHANK DRILLS

**No. 102**



| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Diameter** | 1/4 | 9/32 | 5/16 | 11/32 | 3/8 | 13/32 | 7/16 | 15/32 | 1/2 | 17/32 | 9/16 | 19/32 | 5/8 | 21/32 | 11/16 | inch. |
| **Length** | 6 1/2 | 6 1/2 | 6 1/2 | 6 1/2 | 6 1/2 | 7 | 7 1/2 | 7 1/2 | 7 1/2 | 8 | 8 1/2 | 8 1/2 | 8 3/4 | 9 | 9 1/2 | " |
| **Price, each** | $0.60 | 0.65 | 0.70 | 0.75 | 0.80 | 0.85 | 0.90 | 0.95 | 1.00 | 1 10 | 1.20 | 1.30 | 1 40 | 1.50 | 1.60 | |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Diameter** | 23/32 | 3/4 | 25/32 | 13/16 | 27/32 | 7/8 | 29/32 | 15/16 | 31/32 | **1** | **1 1/32** | **1 1/16** | **1 3/32** | **1 1/8** | **1 3/16** | inch. |
| **Length** | 9 1/2 | 9 1/2 | 9 1/2 | 10 | 10 1/2 | 10 1/2 | 10 1/2 | 10 1/2 | 10 1/2 | 11 | 11 1/2 | 11 1/2 | 11 1/2 | 11 1/2 | 12 | " |
| **Price, each** | $1.70 | 1.85 | 2.00 | 2.15 | 2.30 | 2.45 | 2.60 | 2.75 | 2.90 | 3.00 | 3.20 | 3.40 | 3.60 | 3.80 | 4.20 | |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Diameter** | **1 1/4** | **1 5/16** | **1 3/8** | **1 7/16** | **1 1/2** | **1 9/16** | **1 5/8** | **1 11/16** | **1 3/4** | **1 13/16** | **1 7/8** | **1 15/16** | **2** | inch. |
| **Length** | 12 1/2 | 14 1/2 | 14 1/2 | 14 1/2 | 15 | 15 1/2 | 15 1/2 | 15 1/2 | 16 | 16 1/2 | 16 1/2 | 16 1/2 | 16 1/2 | " |
| **Price, each** | $4 50 | 4 80 | 5.20 | 5 60 | 6.00 | 6.60 | 7.20 | 7.80 | 8.40 | 8.80 | 9.20 | 9.50 | 9.80 | |

The above we furnish in 64ths if ordered—at one size advance on list.

## STEEL SOCKETS FOR MORSE TAPER SHANK DRILLS

**No. 100**



| | | | | | | |
|---|---|---|---|---|---|---|
| **No. 1** | Hold Drills | 1/4 | to | 1 1/32 | inclusive, each | $1.25 |
| " **2** | " " | 5/16 | " | 2 3/32 | " " | 1.90 |
| " **3** | " " | 1 1/8 | " | 1 1/4 | " " | 2.65 |
| " **4** | " " | 1 3/32 | " | 2 | " " | 4.20 |

## STEEL SOCKET SLEEVES

**No. 100 B**



| | | | | | |
|---|---|---|---|---|---|
| **No. 1** | Fitted to | No. 2 | or | 3 Socket, each | $1.90 |
| " **2** | " | " 3 | " | " | 2.50 |
| " **2** | " | " 4 | " | " | 3.15 |
| " **3** | " | " 4 | " | " | 3.15 |

## STRAIGHT SHANK TWIST DRILLS

**No. 105**



| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Diameter** | 1/16 | 5/64 | 3/32 | 7/64 | 1/8 | 9/64 | 5/32 | 11/64 | 3/16 | 13/64 | 7/32 | 15/64 | 1/4 | 17/64 | 9/32 | inch. |
| **Length** | 2 1/2 | 2 1/2 | 2 1/2 | 2 1/2 | 3 | 3 1/2 | 3 1/2 | 3 1/2 | 3 1/2 | 3 1/2 | 3 1/2 | 3 1/2 | 4 | 4 1/2 | 4 1/2 | " |
| **Price, each** | $0.09 | 0.10 | 0.11 | 0.12 | 0.13 | 0.15 | 0.16 | 0.18 | 0.20 | 0.21 | 0.23 | 0.26 | 0.28 | 0.30 | 0.32 | |
| **Price, per doz.** | $1.00 | 1.10 | 1.20 | 1,30 | 1,45 | 1.60 | 1 80 | 2.00 | 2.20 | 2.40 | 2.65 | 2.90 | 3.15 | 3.40 | 3.65 | |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Diameter** | 19/64 | 5/16 | 21/64 | 11/32 | 23/64 | 3/8 | 25/64 | 13/32 | 27/64 | 7/16 | 29/64 | 15/32 | 31/64 | 1/2 | inch. |
| **Length** | 4 1/2 | 4 1/2 | 4 1/2 | 4 1/2 | 4 1/2 | 5 | 5 1/2 | 5 1/2 | 5 1/2 | 5 1/2 | 5 1/2 | 5 1/2 | 5 1/2 | 6 | " |
| **Price, each** | $0.35 | 0.37 | 0.40 | 0.42 | 0.45 | 0.48 | 0.50 | 0.53 | 0.55 | 0.59 | 0.63 | 0.65 | 0.67 | 0.70 | |
| **Price, per doz.** | $3.90 | 4.20 | 4.50 | 4.80 | 5.10 | 5.40 | 5.70 | 6.00 | 6.40 | 6.80 | 7.20 | 7.50 | 7.75 | 8.00 | |

Straight Shank Drills over 1/2 inch, same list as Taper Shank.

## STRAIGHT SHANK TWIST DRILLS

**No. 107**

Stubs' Steel Wire Gauge sizes.

| | | | | | |
|---|---|---|---|---|---|
| **Nos.** | **1** to **5** | **6** to **10** | **11** to **15** | **16** to **20** | **21** to **25** | **26** to **30** |
| **Length, inch** | 4 | 3 1/16 | 3 1/2 | 3 1/4 | 3 1/16 | 2 1/16 |
| **Price, each** | $0.22 | 0.21 | 0.20 | 0.19 | 0.17 | 0.15 |
| **Price, per doz.** | $2.35 | 2.25 | 2.10 | 1.95 | 1.75 | 1.55 |

| | | | | | | |
|---|---|---|---|---|---|---|
| **Nos.** | **31** to **35** | **36** to **40** | **41** to **45** | **46** to **50** | **51** to **60** | **61** to **70** |
| **Length, inch** | 2 1/8 | 2 1/16 | 2 1/4 | 2 1/16 | 1 3/4 | 1 1/4 |
| **Price, each** | $0.14 | 0.12 | 0.10 | 0.09 | 0.09 | 0.08 |
| **Price, per doz.** | $1.40 | 1.25 | 1.10 | 0.95 | 0.95 | 0.90 |

See page 113 for corresponding Wire Gauge and Decimal sizes.

# STRAIGHT SHANK DRILLS

**No. 112**



**With Shanks ¼ inch Diameter.**

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Diameter** | 1/8 | 5/32 | 3/16 | 7/32 | 1/4 | 9/32 | 5/16 | 11/32 | 3/8 | 13/32 | inch. |
| **Length** | 5½ | 5½ | 5½ | 5½ | 6 | 6 | 6 | 6 | 6 | 6 | " |
| **Price, each** | $0.45 | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.73 | 0.75 | 0.78 | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Diameter** | 7/16 | 15/32 | 1/2 | 17/32 | 9/16 | 19/32 | 5/8 | 21/32 | 11/16 | 3/4 | inch. |
| **Length** | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | " |
| **Price, each** | $0.80 | 0.83 | 0.85 | 0.88 | 0.90 | 1.00 | 1.05 | 1.10 | 1.15 | 1.25 | |

## STRAIGHT SHANK MACHINE BITS

### FOR WOOD

**No. 108**



| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Diameter** | 1/8 | 5/32 | 3/16 | 7/32 | 1/4 | 9/32 | 5/16 | 11/32 | 3/8 | 13/32 | 7/16 | 15/32 | 1/2 | inch. |
| **Length** | 3 | 3½ | 3½ | 3½ | 4 | 4½ | 4½ | 4½ | 5 | 5½ | 5½ | 5½ | 6 | " |
| **Price, each** | $0.25 | 0.30 | 0.40 | 0.45 | 0.50 | 0.55 | 0.63 | 0.70 | 0.80 | 0.88 | 0.95 | 1.00 | 1.06 | |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Diameter** | 17/32 | 9/16 | 5/8 | 11/16 | 3/4 | 13/16 | 7/8 | 15/16 | 1 | 1 1/16 | 1 1/8 | 1 3/16 | 1 1/4 | inch. |
| **Length** | 6½ | 6½ | 6½ | 7 | 7½ | 8 | 8½ | 9 | 9½ | 11½ | 11½ | 12 | 12½ | " |
| **Price, each** | $1.20 | 1.25 | 1.45 | 1.70 | 2.10 | 2.45 | 2.90 | 3.30 | 3.75 | 4.50 | 5.00 | 5.50 | 6.00 | |

The above we can furnish if ordered with Morse Taper or half inch Diameter Shanks.

## BIT STOCK DRILLS

### FOR METAL OR WOOD

**No. 109**



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Diameter** | 1/16 | 3/32 | 1/8 | 5/32 | 3/16 | 7/32 | 1/4 | 9/32 | inch. |
| **Price, each** | $0.14 | 0.16 | 0.20 | 0.24 | 0.29 | 0.33 | 0.38 | 0.43 | |
| **Price, per doz.** | $1.50 | 1.65 | 2.10 | 2.60 | 3.10 | 3.60 | 4.10 | 4.70 | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Diameter** | 5/16 | 11/32 | 3/8 | 13/32 | 7/16 | 15/32 | 1/2 | 5/8 | inch. |
| **Price, each** | $0.48 | 0.54 | 0.62 | 0.68 | 0.75 | 0.82 | 0.87 | 1 35 | |
| **Price, per doz.** | $5.40 | 6.30 | 7.20 | 8.00 | 8 80 | 9.60 | 10.30 | 16 20 | |

## TAPER SQUARE SHANK DRILLS FITTING RATCHETS

**No. 109 E**



**With Shanks ⅝ in. by ⅝ in. and 1½ in. long, and Shanks ¾ in. by ½ in. and 1¾ in. long.**

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Diameter** | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1 1/8 | 1 1/4 | inch. |
| **Length** | 5 | 5 | 6 | 6½ | 6½ | 6½ | 6½ | 7½ | 8½ | 9 | 9 | " |
| **Price, each** | $1.25 | 1.40 | 1.50 | 1.55 | 1.65 | 1.75 | 1.95 | 2.55 | 3.20 | 3.90 | 4.55 | |

In ordering Taper Square Shank Drills, please furnish drawing showing the square of the Shank and its length.

# SOLID REAMERS

**No. 116**

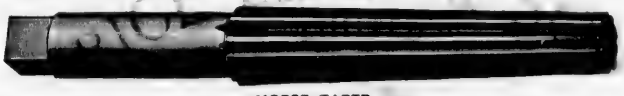


| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diameter..... | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 9/16 | 5/8 | 11/16 | 3/4 | 13/16 | 7/8 | 15/16 | 1 | 1 1/16 | inch. |
| Flute, length.. | 2 1/16 | 2 1/4 | 2 3/8 | 2 7/16 | 2 1/16 | 2 3/8 | 2 3/4 | 2 3/8 | 3 | 3 1/4 | 3 1/4 | 3 7/16 | 3 3/8 | 3 3/4 | " |
| Price, each.... | $1.95 | 2.10 | 2.25 | 2.40 | 2.55 | 2.70 | 2.85 | 3.10 | 3.30 | 3.50 | 3.75 | 4.05 | 4.35 | 4.65 | |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diameter..... | 1 1/8 | 1 3/16 | 1 1/4 | 1 5/16 | 1 3/8 | 1 7/16 | 1 1/2 | 1 9/16 | 1 5/8 | 1 11/16 | 1 3/4 | 1 13/16 | 1 7/8 | 2 | inch. |
| Flute, length.. | 4 | 4 1/4 | 4 1/2 | 4 3/4 | 5 | 5 1/4 | 5 1/2 | 5 3/4 | 5 3/4 | 5 1/4 | 6 | 6 1/4 | 6 1/4 | 6 1/2 | " |
| Price, each.... | $4.95 | 5.25 | 5.55 | 5.85 | 6.15 | 6.65 | 7.10 | 7.80 | 8.55 | 9.30 | 10.05 | 10.65 | 11.45 | 12.45 | |

# TAPER REAMERS

**No. 118**



MORSE TAPER

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| No. 0 | Length of Flute 2 1/4 inch, tapers | .375 | to | .258 | ..... | ..... | ..... | each | $2.40 |
| " 1 | " " 3 1/4 " " | .5415 | " | .365 | ..... | ..... | ..... | " | 3.00 |
| " 2 | " " 4 1/2 " " | .797 | " | .572 | ..... | ..... | ..... | " | 3.90 |
| " 3 | " " 5 " " | 1.025 | " | .775 | ..... | ..... | ..... | " | 5 10 |
| " 4 | " " 5 1/2 " " | 1.303 | " | 1.021 | ..... | ..... | ..... | " | 6 30 |

# ROSE CHUCKING REAMERS

**No. 120**

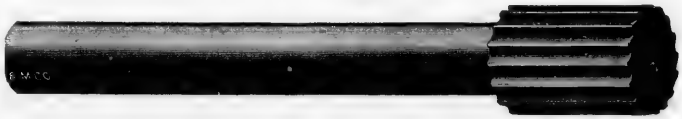


| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diameter..... | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 9/16 | 5/8 | 11/16 | 3/4 | 13/16 | 7/8 | 15/16 | 1 | inch. |
| Full Length... | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 9 1/2 | 9 1/2 | 10 | 10 | 10 1/2 | " |
| Flute, length.. | 1 1/2 | 1 1/2 | 1 3/4 | 1 3/4 | 2 | 2 | 2 1/4 | 2 1/4 | 2 1/2 | 2 1/2 | 2 3/4 | 2 3/4 | 2 3/4 | " |
| Price, each.... | $1.20 | 1.35 | 1.50 | 1.65 | 1.80 | 1.95 | 2.10 | 2.25 | 2.40 | 2 55 | 2.70 | 2.95 | 3.15 | |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diameter..... | 1 1/16 | 1 1/8 | 1 3/16 | 1 1/4 | 1 5/16 | 1 3/8 | 1 7/16 | 1 1/2 | 1 9/16 | 1 5/8 | 1 3/4 | 1 7/8 | 2 | inch. |
| Full Length... | 10 1/2 | 11 | 11 | 11 1/2 | 11 1/2 | 12 | 12 | 12 1/2 | 12 1/2 | 13 | 13 1/2 | 14 | 14 | " |
| Flute, length.. | 2 3/4 | 2 7/8 | 2 7/8 | 3 | 3 | 3 1/4 | 3 1/4 | 3 1/2 | 3 1/2 | 3 3/4 | 4 | 4 1/4 | 4 1/4 | " |
| Price, each.... | $3.40 | 3.60 | 3.85 | 4.05 | 4.30 | 4.50 | 4.75 | 5.00 | 5.20 | 5.40 | 5.85 | 6.35 | 6.90 | |

# FLUTED CHUCKING REAMERS

**No. 119**



| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diameter..... | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 9/16 | 5/8 | 11/16 | 3/4 | 13/16 | 7/8 | 15/16 | 1 | inch. |
| Full Length... | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 9 1/2 | 9 1/2 | 10 | 10 | 10 1/2 | " |
| Flute, length.. | 1 | 1 | 1 | 1 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 5/8 | 1 5/8 | 1 1/2 | 1 1/2 | 1 5/8 | " |
| Price, each.... | $1.35 | 1.50 | 1.65 | 1.80 | 1.95 | 2.10 | 2.25 | 2.40 | 2.55 | 2.80 | 3.00 | 3.25 | 3.45 | |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diameter..... | 1 1/16 | 1 1/8 | 1 3/16 | 1 1/4 | 1 5/16 | 1 3/8 | 1 7/16 | 1 1/2 | 1 9/16 | 1 5/8 | 1 3/4 | 1 7/8 | 2 | inch. |
| Full Length... | 10 1/2 | 11 | 11 | 11 1/2 | 11 1/2 | 12 | 12 | 12 1/2 | 12 1/2 | 13 | 13 1/2 | 14 | 14 | " |
| Flute, length.. | 1 5/8 | 1 3/4 | 1 3/4 | 1 7/8 | 1 7/8 | 2 | 2 | 2 1/8 | 2 1/8 | 2 1/4 | 2 3/8 | 2 1/4 | 2 1/2 | " |
| Price, each.... | $3.70 | 3.90 | 4.10 | 4.35 | 4.60 | 4.80 | 5.00 | 5.25 | 5.50 | 5.70 | 6.35 | 6.90 | 7.50 | |

The above Reamers are finished .005 of an inch under Standard, and are slightly tapered on end of Flute.

# MORSE ADJUSTABLE REAMERS

**No. 130 E**



| Diameter..... | 3/4 | 13/16 | 7/8 | 15/16 | 1 | 1 1/16 | 1 1/8 | 1 3/16 | 1 1/4 | 1 5/16 | 1 3/8 | 1 7/16 | 1 1/2 inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Price, each.... | $6.90 | 7.50 | 7.95 | 8.40 | 8.85 | 9.35 | 9.75 | 10.20 | 10.65 | 11.10 | 11.70 | 12.30 | 12.90 |

Adjustable Reamers are not furnished smaller than 3/4 inches diameter.

## SHELL REAMERS

**No. 117**



| Diameter..... | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 9/16 | 5/8 | 11/16 | 3/4 | 13/16 | 7/8 | 15/16 | 1 inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length..... | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 2 | 2 | 2 1/2 | 2 1/2 | 2 1/2 | 2 1/2 | 2 1/2 | 2 1/2 | 2 1/2 " |
| Diam. of Hole | 1/4 | 1/4 | 7/16 | 7/16 | 1/2 | 1/2 | 5/8 | 5/8 | 5/8 | 5/8 | 5/8 | 5/8 | 5/8 " |
| Price, each... | $1.65 | 1.65 | 1.80 | 1.95 | 2.10 | 2.25 | 2.40 | 2.40 | 2.40 | 2.40 | 2.55 | 2.55 | 2.70 |

| Diameter.... | 1 1/16 | 1 1/8 | 1 3/16 | 1 1/4 | 1 5/16 | 1 3/8 | 1 7/16 | 1 1/2 | 1 9/16 | 1 5/8 | 1 11/16 | 1 3/4 | 1 13/16 inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length..... | 2 1/2 | 2 1/2 | 2 1/2 | 2 1/2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 1/2 | 3 1/2 | 3 1/2 " |
| Diam. of Hole | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 1 | 1 | 1 " |
| Price, each... | $2.70 | 2.85 | 3.00 | 3.30 | 3.60 | 3.90 | 4.20 | 4.50 | 4.80 | 5.25 | 5.70 | 6.15 | 6.70 |

| Diameter..... | 1 7/8 | 1 15/16 | 2 | 2 1/16 | 2 1/8 | 2 3/16 | 2 1/4 | 2 3/8 | 2 1/2 | 2 5/8 | 2 3/4 | 2 7/8 | 3 inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length..... | 3 1/2 | 3 1/2 | 3 1/2 | 3 1/2 | 3 1/2 | 3 1/2 | 3 1/2 | 3 1/2 | 3 1/2 | 4 | 4 | 4 | 4 " |
| Diam. of Hole | 1 | 1 | 1 | 1 1/4 | 1 1/4 | 1 1/4 | 1 1/4 | 1 1/4 | 1 1/4 | 1 1/4 | 1 1/4 | 1 1/4 | 1 1/4 " |
| Price, each... | $7.05 | 7.50 | 7.80 | 8.10 | 8.40 | 8.70 | 9.00 | 9.60 | 10.20 | 11.00 | 12.00 | 13.20 | 14.40 |

Shell Reamers, any Length or Diameter, made to Order.




## MILLING OR SLOTTING CUTTERS

WITH

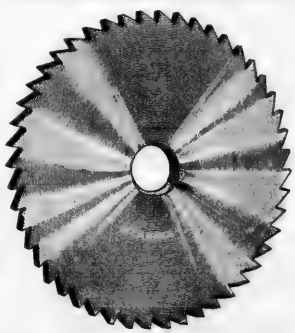
TEETH STRAIGHT OR SPIRAL

**No. 126**



| Width of Face..... | 1/8 | 3/16 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 | 2 1/2 | 3 inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diam. of Cutter .... | 2 1/4 | 2 1/4 | 2 1/2 | 2 1/2 | 2 1/2 | 2 3/4 | 2 3/4 | 2 3/4 | 2 3/4 | 2 3/4 | 2 3/4 | 2 1/2 | 2 1/2 | 2 1/2 | 2 1/2 | 2 1/2 " |
| Price, each ..... | $1.82 | 1.82 | 1.96 | 2.10 | 2.25 | 2.52 | 2.66 | 2.94 | 3.22 | 3.92 | 4.20 | 4.35 | 4.75 | 5.18 | 5.75 | 6.30 |

The above sizes have Holes 1 in. diameter, Cutters of 1 in. face and larger have spiral teeth, unless otherwise ordered. In ordering carefully state diameter of Cutter and size of Hole desired.



## METAL SLITTING SAWS

**No. 132**

| | | | | | |
|---|---|---|---|---|---|
| 2 1/2 | in. Diameter, | 1/8 | in. Hole, | 1/32 or 1/64 | in. Face.....each $1.40 |
| 2 1/2 | " | 1/8 | " | 1/16, 3/64 or 1/32 | " ..... " 1.25 |
| 3 | " | 1 | " | 1/32 or 1/64 | " ..... " 1.75 |
| 3 | " | 1 | " | 1/16, 3/64 or 1/32 | " ..... " 1.40 |
| 4 | " | 1 | " | 3/64 or 1/16 | " ..... " 2.00 |
| 4 | " | 1 | " | 3/64 or 1/32 | " ..... " 1.70 |

## SCREW SLOTTING CUTTERS

**No. 131**

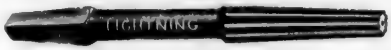
| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1 1/2 | in. Diameter, | .006 to .020 | in. Thick, | 1/4 or 5/16 | in. Hole..... | each $0.15 |
| 2 1/4 | " " | .006 " .032 | " " | 5/16 " 3/8 | " " ..... | " 0.20 |
| 2 1/2 | " " | .006 " .057 | " " | 3/8 " 1 | " " ..... | " 0.20 |

# THE WILEY & RUSSELL MFG. CO'S

## LIGHTNING TAPER REAMERS

### FOR BIT BRACE USE

**No. 460**




The sizes are arranged to follow each other from the smallest to the largest, so that with a set of these useful tools any size from $\frac{1}{16}$ to $1\frac{1}{4}$ inch may be accurately made. Each Reamer leaves a round, true cut hole.

| Sizes | ¼ | 5/16 | ⅜ | 7/16 | ½ | 9/16 | ⅝ | 11/16 |
|---|---|---|---|---|---|---|---|---|
| Price, each | $0.68 | 0.75 | 0.73 | 0.90 | 1.05 | 1.20 | 1.35 | 1.58 |
| **Sizes** | ¾ | 13/16 | ⅞ | 15/16 | **1** | **1⅛** | **1¼** | |
| Price, each | $1.80 | 2.10 | 2.40 | 2.75 | 3.00 | 3.38 | 3.90 | |

## BUTTERFIELD & CO.'S TAPER REAMERS

### FOR BIT BRACE USE

| Diameter.. | ¼ | 5/16 | ⅜ | 7/16 | ½ | 9/16 | ⅝ | ¾ |
|---|---|---|---|---|---|---|---|---|
| Price, each | $0.27 | 0.35 | 0.40 | 0.47 | 0.55 | 0.68 | 0.82 | 1.08 |

## LIGHTNING TAPER REAMERS

With Shanks ¼ inch in diameter.

**No. 470**




| Sizes | ¼ | 5/16 | ⅜ | 7/16 | ½ | 9/16 | ⅝ | 11/16 |
|---|---|---|---|---|---|---|---|---|
| Price, each | $0.83 | 0.90 | 0.98 | 1.05 | 1.13 | 1.28 | 1.50 | 1.80 |
| **Sizes** | ¾ | 13/16 | ⅞ | 15/16 | **1** | **1⅛** | **1¼** | |
| Price, each | $2.10 | 2.40 | 2.70 | 3.00 | 3.38 | 3.90 | 4.50 | |

## NEW CENTRE REAMER




Accurately made of the best steel, and of the most approved form.

| | | | | | |
|---|---|---|---|---|---|
| No. **530**—¼ in. | Shank, | cuts | ⅜ | ..... each | $0.38 |
| " **531**—⅜ " | " | " | ½ | ..... " | 0.45 |
| " **532**—½ " | " | " | ⅝ | ..... " | 0.90 |

## LIGHTNING COUNTERSINKS

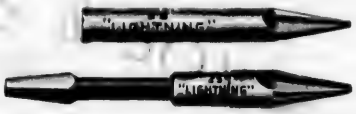
Round Shanks, ¼ and $\frac{21}{64}$ inch in diameter.



90 or 80 Degrees for Bolt or Screw Heads.

No. **500**—Regular size, ⅜ in. diam., ⅜ in. cut..each $0.75
No. **510**—Large size, ½ in. diam., ½ in. cut.. " 1.13

Give style of Shank and Degrees wanted.




No. **520**—25 Degrees for Sleigh Shoe Bolts.

Bit Stock or ¼ inch Shank ..... each $0.75

Give style of Shank wanted

## LIGHTNING COUNTERSINK AND DRILL COMBINED.

**No. 540**



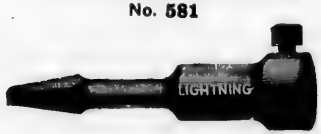

Can furnish these for using Straight Fluted Drills or Twist Drills, as may be preferred.

Each tool carries only one size of drill. Supplied with shanks ⅜ in. diameter, for sizes ¼ to $\frac{25}{64}$;—with shanks $\frac{21}{64}$ in. diameter for sizes ¼ to $\frac{1}{2}$ in.

Price of Tools, without Drills..... .....each $2.25
Extra Countersinking Cutters ..... " 0.30

## LIGHTNING HOLDERS

**No. 581**

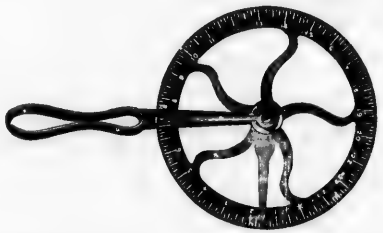



**Chucks or Holders,** for use in the bit brace, to take drills and other tools having round shanks, ¼ inch or $\frac{21}{64}$ inch in diameter. We can also supply these holders with ⅜ inch and $\frac{25}{64}$ inch round shanks, instead of brace shanks. Price..... ..... each $1.13

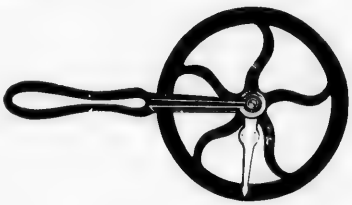
# THE WILEY & RUSSELL MFG. CO'S

## TIRE MEASURING WHEELS

### DROP FORGED



No. **606**—Graduated .....each $2.25



No. **607**—Plain.....each $1.88

## TIRE BOLT HOLDER

### No. 603



No. **603**—Tire Bolt Holder.....each $1.15

## THE LIGHTNING TAPS, DIES AND HOLDERS

### FOR USE IN THE BIT BRACE

### STYLE B

Making perfect threads at a single cut. Sizes, $\frac{5}{16}$ in. to $\frac{7}{8}$ inch.

No. **286**




| Size | 5/16 | 1/4 | 5/16 | 3/8 | 7/16 |
|---|---|---|---|---|---|
| Die, Tap and Holder complete | $2.85 | 2.85 | 2.93 | 3.38 | 3 53 |
| Die only | $1.50 | 1.50 | 1.50 | 1.50 | 1.73 |

Holder separately .....each $1.08

Taps only, see page 18.

Will send above set $\frac{1}{32}$ oversize and threads, unless otherwise ordered.

## STEARN'S TIRE BOLT HOLDER

### WITH STEEL SCREW, HARDENED POINT

Each..... $0 90

## HOLDERS FOR BIT BRACE AND MACHINE USE

No. **278**



Showing Guide ahead.

No. **279**




Showing face of Die ahead.

No. **278**—Elastic Holder with Shank for use in Bit Brace, or No. **279** with Round Shank $\frac{1}{2}$ in. diameter. For **X** Dies $\frac{3}{8}$ in. outside diameter, admitting thread 1 inch long. Price.....each $0.75

No. **280**—Elastic Holder for use in Bit Brace or with $\frac{1}{2}$ inch diameter shank. For No. 0 Dies, $\frac{7}{8}$ inch outside diameter admitting thread $1\frac{1}{8}$ inch long .....each 1.15

No. **282**—Elastic Holder for use in Bit Brace or with $\frac{1}{2}$ inch diameter Shank, to take Dies $1\frac{5}{16}$ in. outside diameter, admitting thread $2\frac{3}{8}$ inch long. .....each 1.15

No. **284**—Elastic Holders for use in Bit Brace or with $\frac{1}{2}$ inch diameter Shank, to take Dies $2\frac{3}{16}$ outside diameter, admitting thread $3\frac{1}{8}$ inches long .....each 2.25

When using Plate Dies in these Holders they should be held with guide side out, but unless wanted specially to hold Plate Dies we would recommend dies to cut from face, but made in other respects like Plate Dies.

## "X" SCREW PLATE

(Adjustable Dies, ⅞ inch diameter.)
(Without Guides.)

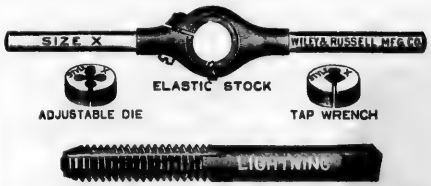



No. **350**—Case containing Stock, Tap Wrench (fitted in stock) and 5 sizes of Taps and Dies ..... per case $6.60

No. **352**—Case containing Stock, Tap Wrench (fitted in stock) and 7 sizes of Taps and Dies ..... per case 8.90

No. **354**—Case containing Stock Tap Wrench (fitted in stock) and 10 sizes of Taps and Dies ..... per case 11.65

No. **358**—Case containing Stock, Tap Wrench (fitted in stock) and 15 sizes of Taps and Dies ..... per case 17.05




Form of Tap furnished with all of our "X," "X Full-Mounted" and No. 0 Sets. For price see page 18.

---

**Prices of Single Parts of "X" Sets.**

| | | |
|---|---|---|
| Stock, 5¼ inches long | each | $0.60 |
| Dies (regular sizes) | " | 0.60 |
| Taps. See page 18. | | |
| Tap Wrench (fitting in Stock) | each | 0.60 |
| Cases, separate, 5 sizes | " | 0.55 |
| " " 7 " | " | 0.65 |
| " " 10 " | " | 0.65 |
| " " 15 " | " | 1.00 |

## "X FULL-MOUNTED" SCREW PLATE

(A Stock with Each Die.)
(Adjustable Dies, ⅞ inch diameter.)




No. **374**—Case containing Tap Wrench and 5 sizes of Stocks, Dies and Taps ..... per case $9.38

No. **376**—Case containing Tap Wrench and 7 sizes of Stocks, Dies and Taps ..... per case 12.38

No. **378**—Case containing Tap Wrench and 10 sizes of Stocks, Dies and Taps .... per case 17.25

No. **380**—Case containing Tap Wrench and 12 sizes of Stocks, Dies and Taps .... per case 20.25




Stock furnished with "X Full-Mounted" Sets.

These are always ready without the trouble and delay of fitting up. Several sizes may be in use at the same time. Each Stock has an accurate guide for its Die.

---

**Prices of Single Parts of "X Full-Mounted" Sets.**

| | | |
|---|---|---|
| Stocks (without Dies) | each | $0.60 |
| Dies (regular sizes) | " | 0.60 |
| Taps. See page 18. | | |
| Tap Wrench, including Stock, complete | each | 1.20 |
| Cases, separate, 5 sizes | " | 0.55 |
| " " 7 " | " | 0.65 |
| " " 10 " | " | 0.65 |
| " " 12 " | " | 0.85 |

### REGULAR SIZES OF DIES AND TAPS CARRIED IN STOCK FOR ABOVE SETS FOR BICYCLE WORK IN THREADING SPOKES AND NIPPLES.

**Wire Gauge Sizes**—Nos. $11^{\text{56}}$, $12^{\text{56}}$, $12^{\text{56}}$, $12^{\text{48}}$, $13^{\text{56}}$, $14^{\text{56}}$, $15^{\text{56}}$, $16^{\text{56}}$, $17^{\text{56}}$.

**Machine Screw Sizes**—Nos. $2^{\text{56}}$, $3^{\text{48}}$, $4^{\text{40}}$, $6^{\text{32}}$, $8^{\text{32}}$, $10^{\text{24}}$, $12^{\text{24}}$, $14^{\text{20}}$, $14^{\text{24}}$, $16^{\text{16}}$, $16^{\text{18}}$, $16^{\text{20}}$, $18^{\text{18}}$, $18^{\text{20}}$, $20^{\text{16}}$, $24^{\text{16}}$.

**Fractional Sizes**—Nos. $\frac{1}{16}^{60}$, $\frac{5}{64}^{60}$, $\frac{3}{32}^{48}$, $\frac{7}{64}^{44}$, $\frac{1}{8}^{40}$, $\frac{9}{64}^{40}$, $\frac{5}{32}^{32}$, $\frac{11}{64}^{36}$, $\frac{3}{16}^{24}$, $\frac{3}{16}^{32}$, $\frac{13}{64}^{32}$, $\frac{7}{32}^{28}$, $\frac{15}{64}^{28}$, $\frac{1}{4}^{20}$, $\frac{1}{4}^{24}$, $\frac{17}{64}^{20}$, $\frac{9}{32}^{20}$.

# THE WILEY & RUSSELL MFG. CO'S

## BICYCLE SCREW PLATES

(Adjustable Dies with Guides.)

**These sets are supplied with exact sizes, V Thread, and Taper Taps. Will substitute Plug Taps, if preferred.**

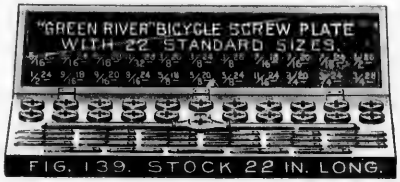


FIG. 139. STOCK 22 IN. LONG.

No. **133**—Case containing Stock 10 inches long and **7** sizes of Taps, Dies and Guides, 1-4$^{24}$, 5-16$^{24}$, 5-16$^{28}$, 3-8$^{20}$, 3-8$^{24}$, 7-16$^{20}$, 7-16$^{24}$. Price, complete ..... $17.25

No. **134**—Same as No. **133**, except with Adjustable Tap Wrench No. 2 ..... 20.75

No. **135**—Case containing Stock 22 inches long and **6** sizes of Taps, Dies and Guides, 5-16$^{24}$, 3-8$^{24}$, 7-16$^{24}$, 1-2$^{24}$, 5-8$^{18}$, 3-4$^{28}$. Price, complete ..... 19.50

No. **136**—Same as No. **135**, except with Adjustable Tap Wrench No. 3. ..... 24.00

No. **137**—Case containing Stock 22 inches long and **14** sizes of Taps, Dies and Guides, 5-16$^{24}$, 3-8$^{20}$, 3-8$^{24}$, 7-16$^{20}$, 7-16$^{24}$, 1 2$^{20}$, 1-2$^{24}$, 9 16$^{20}$, 9-16$^{24}$, 5-8$^{20}$, 5-8$^{20}$, 3-4$^{20}$, 3-4$^{24}$, 3-4$^{28}$. Price, complete ..... 42.75

No. **138**—Same as No. **137**, except with Adjustable Tap Wrench No. 3 ..... 47.25

No. **139**—Case containing Stock 22 inches long and **22** sizes of Taps, Dies and Guides, 5-16$^{20}$, 5-16$^{24}$, 5-16$^{28}$, 11-32$^{28}$, 3-8$^{20}$, 3-8$^{24}$, 3-8$^{28}$, 7 16$^{18}$, 7-16$^{20}$, 7-16$^{24}$, 1-2$^{20}$, 1-2$^{24}$, 9-16$^{18}$, 9-16$^{20}$, 9-16$^{24}$, 5-8$^{18}$, 5-8$^{20}$, 5-8$^{24}$, 11-16$^{24}$, 3-4$^{20}$, 3-4$^{24}$, 3-4$^{28}$. Price, complete ..... 62.25

No. **140**—Same as No. **139**, except with Adjustable Tap Wrench No. 3 ..... 66.75

Outside Diameter of Dies for No. **133**, $1\frac{5}{16}$; Nos. **134** to **140**, $2\frac{3}{16}$ inches.

No. **141**—Case containing **18** sizes. Two Stocks and Taps, Dies and Guides, Birmingham ("Stubs") Wire Gauge sizes, Nos. 16$^{36}$, 15$^{30}$, 14$^{30}$, 13$^{28}$, 13$^{30}$, 12$^{40}$, 12$^{42}$, 12$^{30}$, 12$^{36}$, 11$^{30}$, and Fractional sizes, 9-64$^{40}$, 5-32$^{36}$, 3-16$^{32}$, 7-32$^{28}$, 1-4$^{24}$, 5-16$^{24}$, 3 8$^{24}$, 7-16$^{24}$ and Tap Wrench fitting in small stock to take the 15 smallest taps. Price, complete ..... 28.85

Diameter of Dies in this set $\frac{1}{4}$ in., and under, is $\frac{7}{8}$ inch; $\frac{5}{16}$ in., and over, is $1\frac{5}{16}$ inches.

No. **142**—As above, with Adjustable Tap Wrench.. 32.40



FIG. 143 STOCKS 6 IN. AND 22 IN. LONG.

No. **143**—Case containing **21** sizes. Two Stocks and Taps, Dies and Guides, Birmingham ("Stubs") Wire Gauge sizes, Nos. 16$^{36}$, 15$^{36}$, 14$^{36}$, 13$^{28}$, 13$^{36}$, 12$^{40}$, 12$^{42}$, 12$^{30}$, 12$^{36}$, 11$^{36}$ and Fractional sizes, 9-64$^{40}$, 5-32$^{36}$, 3-16$^{32}$, 7-32$^{28}$, 1-4$^{24}$, 5-16$^{24}$, 3-8$^{24}$, 7-16$^{24}$, 1-2$^{24}$, 5-8$^{28}$, 3-4$^{28}$ and Tap Wrench fitting in small stock to take the 15 smallest taps. Price, complete ..... $40.15

Di ameter of Dies in this set $\frac{1}{4}$ in., and under, is $\frac{7}{8}$ inch; $\frac{5}{16}$ in., and over, is $2\frac{3}{16}$ inches.

No. **144**—As above, with Adjustable Tap Wrench. 44.65

In sizes $\frac{5}{16}$ and larger in above sets we regularly send Taper Taps, but will substitute Plug Taps, if preferred.



FIG. 145 STOCKS 6 IN. AND 22 IN. LONG.

No. **145**—Case containing **38** sizes. Two Stocks and Taps, Dies and Guides, Birmingham ("Stubs") Wire Gauge sizes, Nos. 16$^{36}$, 15$^{30}$, 14$^{28}$, 13$^{28}$, 13$^{36}$, 12$^{40}$, 12$^{42}$, 12$^{30}$, 12$^{36}$, 11$^{30}$, and Fractional sizes 9-64$^{40}$, 5-32$^{36}$, 3-16$^{32}$, 7-32$^{28}$, 1-4$^{24}$, 9-32$^{24}$, 5-16$^{20}$, 5-16$^{24}$, 5-16$^{28}$, 11-32$^{28}$, 3-8$^{20}$, 3-8$^{24}$, 3-8$^{28}$, 7-16$^{18}$, 7-16$^{20}$, 7-16$^{24}$, 1-2$^{20}$, 1-2$^{24}$, 9-16$^{18}$, 9-16$^{20}$, 9-16$^{24}$, 5-8$^{18}$, 5-8$^{20}$, 5-8$^{24}$, 11-16$^{24}$, 3-4$^{20}$, 3-4$^{24}$, 3-4$^{28}$, and Tap Wrench fitting in small stock to take the 16 smallest taps. Price, complete ..... 84.00

Diameter of Dies in this set $\frac{9}{16}$ in., and under, is $\frac{7}{8}$ inch; $\frac{5}{16}$ in., and over, is $2\frac{3}{16}$ inches.

No. **146**—As above, with Adjustable Tap Wrench No. 3 ..... 88.50

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### Prices of Dies and Guides Singly.

For Sizes having Dies $1\frac{5}{16}$ and $2\frac{3}{16}$ inches outside Diameter.

| Sizes ..... | ¼ | 5/16 | 11/32 | 3/8 | 7/16 | ½ | 9/16 | 5/8 | 11/16 | ¾ inch. |
|---|---|---|---|---|---|---|---|---|---|---|
| $1\frac{5}{16}$ Outside Diameter, each | $1.50 | 1.50 | 1 50 | 1.50 | 1.50 | .... | .... | .... | .... | .... |
| $2\frac{3}{16}$ " " " | $1.88 | 1.88 | 1.88 | 2.25 | 2.25 | 2.25 | 2.40 | 2.63 | 2.85 | 3.00 |

Guides for $1\frac{5}{16}$ Dies, each $0.30; for $2\frac{3}{16}$ Dies, each $0.38.

Price of Taps, see Machinists' Hand Taps, page 19; Stocks, see page 12; Dies and Guides, ¼ diameter, see page 9.

# THE WILEY & RUSSELL MFG. CO'S

## No. 0 LIGHTNING SCREW PLATE

(Adjustable Dies, $\frac{7}{8}$ inch Diameter.
Case Hardened Guides.)

### EXPLANATION OF DIE

Used in "Lightning" Plates Nos. 0 and A.



The cut shows a Die and Guide complete; also a Die taken apart to show the mechanism. The cup-headed screw on the right holds the halves together as a hinge, while the size is regulated by the wedge-shaped screw on the left, the Die being clamped in the Elastic Stock. It is readily adjusted.

$\frac{7}{8}$ inch diameter, Case-hardened Guides.




No. **150**—Case containing Stock, Tap Wrench (fitted in Stock) and 5 sizes Taps, Dies and Guides. ..... per case $ 8.25

No. **152**—Case containing Stock, Tap Wrench (fitted in Stock) and 7 sizes Taps, Dies and Guides..... per case 10.50

No. **154**—Case containing Stock, Tap Wrench (fitted in Stock) and 10 sizes Taps, Dies and Guides..... per case 14.65

No. **158**—Case containing Stock, Tap Wrench (fitted in Stock) and 15 sizes Taps, Dies and Guides..... per case 20.65

Regular sizes of Dies and Taps carried in stock for above sets.

### Bicycle Sizes for Threading Spokes and Nipples.

**Wire Gauge Sizes,** Nos. $11^{5/6}$, $12^{4/8}$, $12^{5/6}$, $13^{4/8}$, $13^{5/6}$, $14^{5/6}$, $15^{5/6}$, $16^{5/6}$, $17^{5/6}$.

**Machine Screw Sizes,** Nos. $2^{5/6}$, $3^{4/8}$, $4^{5/6}$, $6^{3/2}$, $8^{3/2}$, $10^{2/4}$, $12^{2/4}$, $14^{2/0}$, $16^{1/6}$, $16^{2/0}$.

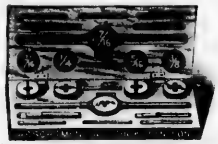
**Fractional Sizes,** $\frac{5}{64}$-60, $\frac{3}{32}$-48, $\frac{7}{64}$-44, $\frac{1}{8}$-40, $\frac{9}{64}$-40, $\frac{5}{32}$-36, $\frac{11}{64}$-36, $\frac{3}{16}$-32, $\frac{13}{64}$-32, $\frac{7}{32}$-24, $\frac{15}{64}$-20, $\frac{1}{4}$-20, $\frac{17}{64}$-20, $\frac{9}{32}$-20.

### Prices of Single Parts of No. "O" Sets.

| | | |
|---|---|---|
| Die, Guide and Tap (regular sizes) | each | $1.50 |
| Dies, regular sizes | " | 0.90 |
| Guides | " | 0.25 |
| Taps, regular sizes. See page 18. | | |
| Tap Wrench (fitting in stock) | " | 0.75 |
| Stock | " | 1.15 |

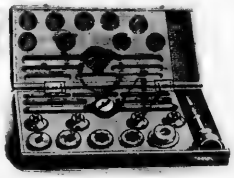
## LIGHTNING SCREW PLATES

With Standard Threads.
(Adjustable Dies with Guides.)



No. **180**—Set A—$\frac{5}{16}$ to $\frac{7}{16}$ inch; Stock 10 inches long and 5 sizes Taps, Dies and Guides, $\frac{3}{8}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$ inch..... .....per case $12.00

Diameter of Dies in this set $1\frac{5}{16}$ inches.



No. **186**—Set A 1—$\frac{3}{16}$ to $\frac{7}{16}$ inch. Stock 10 inches long, Bit Brace Holder and Nut Wrenches. 5 sizes Taps, Dies, Guides and Nut Wrenches, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$ inches...per case 15.00

Diameter of Dies in this set, $1\frac{3}{16}$ inch.

### Prices of Single Parts for Sets A and A 1.

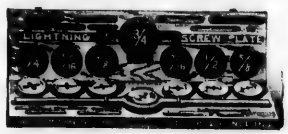
| | | |
|---|---|---|
| Dies, all regular sizes | each | 1.50 |
| Guides | " | 0.30 |
| Stocks (10 inches long) | " | 2.25 |
| Holders for use in bit brace | " | 1.15 |
| Holders for use in lathe | " | 1.15 |
| Nut Wrenches to fit in stock or holders | " | 0.30 |

Taps. See Hand Taps, page 19.



No. **190**—Set AA—$\frac{3}{16}$ to $\frac{1}{2}$ inch. Stock 18 inches long. 6 sizes, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ inch Taps, Dies and Collets .....per case 20.25

Diameter of Collets in this set, $2\frac{3}{16}$ inches.




No. **192**—Set B—$\frac{1}{4}$ to $\frac{7}{8}$ inch. Stock 23 inches long. 7 sizes, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{7}{8}$, inch Taps, Dies and Collets. Price, complete..... 25.60

Diameter of Collets in this set, $2\frac{3}{4}$ inches.

No **193**—Set B—As above, with Adjustable Tap Wrench No. 3 ..... 30.40

Will send above sets $\frac{1}{32}$ oversize, V thread, unless otherwise ordered.

# THE WILEY & RUSSELL MFG. CO'S

## LIGHTNING SCREW PLATES




No. **194**—Set C—$\frac{1}{2}$ to 1 inch. Stock 29 in. long, 5 sizes, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1 inch Taps, Dies and Collets. Price, complete ..... $27.75

Diameter of Collets in this set, $2\frac{1}{4}$ inches.

No. **195**—Set C—$\frac{1}{2}$ to 1 inch, as above, with Adjustable Tap Wrench No. 4..... 33.75



No. **198**—Set C—$\frac{1}{4}$ to 1 inch. Stock 29 inches long. 9 sizes, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1 in. Taps, Dies and Collets. Price, complete ..... 38.25

Diameter of Collets in this set, $2\frac{3}{4}$ inches.

No. **199**—Set C—$\frac{1}{4}$ to 1 inch, as above, with Adjustable Tap Wrenches Nos. 2 and 4..... 47.80




No. **200**—Set D—$\frac{1}{4}$ to $1\frac{1}{2}$ inch. Stock 53 inches long. 6 sizes, $\frac{7}{8}$, 1, $1\frac{1}{8}$, $1\frac{1}{4}$, $1\frac{3}{8}$, $1\frac{1}{2}$ inch Taps, Dies and Collets. Price, complete ..... 67.50

Diameter of Collets in this set, $4\frac{1}{4}$ inches.

For price of Adjustable Tap Wrench, size 5, see page 17.




No. **203**—Set L—$\frac{1}{4}$ to 1 inch. Two Stocks, one 18 inches long, and one 29 inches long. 9 sizes, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1 inch Taps, Dies and Collets. Price, complete ..... $41.25

Diameter of Collets in this set, $\frac{7}{16}$ in. and under, $2\frac{5}{16}$ inches; $\frac{1}{2}$ in. and over, $2\frac{3}{4}$ inches.

For prices of Adjustable Tap Wrenches, sizes 2 and 4, see page 17.




No. **205**—Set D & B—$\frac{1}{4}$ to $1\frac{1}{2}$ inch. Two Stocks, one 23 inches long, and one 53 inches long. 13 sizes, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1, $1\frac{1}{8}$, $1\frac{1}{4}$, $1\frac{3}{8}$, $1\frac{1}{2}$ inch Taps, Dies and Collets. Price, complete 91.50

Diameter of Collets in this set, $\frac{3}{8}$ in., and under, $2\frac{3}{4}$ inches; $\frac{7}{8}$ in., and over, $4\frac{1}{4}$ inches.

For prices of Adjustable Tap Wrenches, sizes 3 and 5, see page 17.

## THE GREEN RIVER SCREW PLATE



No. **100**—Set No. 1—$\frac{5}{16}$ to $\frac{7}{16}$ inch. Stock 10 inches long, with both Stock and Brace Holder for Dies. 5 sizes, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{7}{8}$ inch Taps, Dies and Guides. Complete, in case..... $12.25

Diameter of Dies in this set, $1\frac{5}{16}$ inches.

No. **122**—Set. No. 1, as above, with Adjustable Tap Wrench No. 2..... 15.00



No. **101**—Set No. $1\frac{1}{2}$—$\frac{3}{16}$ to $\frac{1}{2}$ in. Stock 18 inches long. 6 sizes, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ inch Taps, Dies and Guides. Complete, in case ..... $14.10

Diameter of Dies in this set, $2\frac{3}{16}$ inches.

No. **102**—Set No. $1\frac{1}{2}$, as above, with Adjustable Tap Wrench No. 2..... 17.85

Will send above sets $\frac{1}{64}$ oversize, V thread, unless otherwise ordered.

# THE WILEY & RUSSELL MFG. CO'S

## GREEN RIVER SCREW PLATES




No. **103**—Set No. 1½—¼ to ¾ inch. Stock 22 inches long. 7 sizes, ¼, $\frac{7}{16}$, ⅜, $\frac{7}{16}$, ½, ⅝, ¾ inch. Taps, Dies and Guides. Complete, in case ..... $16.65

Diameter of Dies in this set, $2\frac{5}{16}$ inches.

No. **104**—Set No. 1½, as above, with Adjustable Tap Wrench, No. 3. Complete, in case ... 21.40




No. **107**—Set No. 3—½ to 1 inch. Stock 20 inches long. 5 sizes, ½, ⅝, ¾, ⅞, 1 inch Taps, Dies and Guides. Complete, in case..... 21.25

Diameter of Dies in this set, $2\frac{3}{4}$ inches.

No. **108**—Set No. 3, as above, with Adjustable Tap Wrench, No. 4. Complete, in case..... 28.15




No. **111**—Set No. 5—¼ to 1 inch. Stock 20 inches long. 9 sizes, ¼, $\frac{5}{16}$, ⅜, $\frac{7}{16}$, ½, ⅝, ¾, ⅞, 1 inch Taps, Dies and Guides. Complete, in case. 29.40

Diameter of Dies in this set, $2\frac{3}{4}$ inches.

No. **112**—Set No. 5, as above, with Adjustable Tap Wrenches. Nos. 2 and 4. Complete, in case. 39.45




No. **113**—Set No. 6—½ to 1¼ inch. Stock 35 inches long. 7 sizes, ½, ⅝, ¾, ⅞, 1, 1⅛, 1¼ inch Taps, Dies and Guides. Complete, in case..... $33.30

Diameter of Dies in this set, $2\frac{3}{4}$ inches.

For prices of Adjustable Tap Wrenches, sizes Nos. 3 and 5, see page 17.




No. **115**—Set No. 8—¼ to 1¼ inch. Stock 35 inches long. 11 sizes, ¼, $\frac{5}{16}$, ⅜, $\frac{7}{16}$, ½, ⅝, ¾, ⅞, 1, 1⅛, 1¼ inch Taps, Dies and Guides. Complete, in case..... $43.50

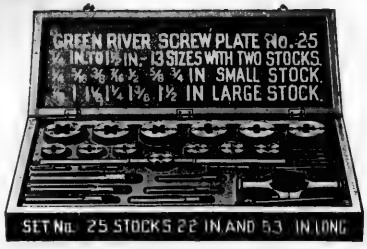
Diameter of Dies in this set, $2\frac{3}{4}$ inches.

For prices of Adjustable Tap Wrenches, sizes Nos. 3 and 5, see page 17.




No. **119**—Set No. 16—¼ to 1¼ inch, 11 sizes. Two Stocks, one 22 inches long and one 35 inches long, and ¼, $\frac{5}{16}$, ⅜, $\frac{7}{16}$, ½, ⅝, ¾, ⅞, 1, 1⅛, 1¼ inch Taps, Dies and Guides. Complete, in case ..... 46.15

Diameter of Dies in this set, $\frac{7}{16}$ in. and under, $2\frac{5}{16}$ inches; ½ in. and over, $2\frac{3}{4}$ inches.




No. **120**—Set No. 25—¼ to 1½ inch, 13 sizes. Two Stocks, one 22 inches long and one 53 inches long, and ¼, $\frac{5}{16}$, ⅜, $\frac{7}{16}$, ½, ⅝, ¾, ⅞, 1, 1⅛, 1¼, 1⅜, 1½ inch Taps, Dies and Guides. Complete, in case ..... 67.85

Diameter of Dies in this set ⅜ inch and under, $2\frac{5}{16}$ inches; ⅞ in. and over, $3\frac{7}{16}$ inches.

For prices of Adjustable Tap Wrenches, sizes 3 and 5, see page 17.

Will send above sets $\frac{1}{32}$ oversize, V thread, unless otherwise ordered.

# THE WILEY & RUSSELL MFG. CO'S

## THE NEW FULL-MOUNTED LIGHTNING SCREW PLATES

A Stock to each Die.




No. **216**—$\frac{5}{16}$ to $\frac{1}{2}$ inch. A Stock to each Die. **6** sizes, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{9}{16}$, $\frac{5}{8}$ inch Taps, Dies and Stocks. Complete, in case ..... $18.00

No. **217**—Same as No. **216**, but with Adjustable Tap Wrench No. 2. Complete, in case..... 21.55




No. **218**—$\frac{1}{4}$ to $\frac{3}{4}$ inch. A Stock to each Die **5** sizes, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ inch Taps. Dies and Stocks. Complete, in case..... 18.75

No. **219**—Same as No. **218**, but with Adjustable Tap Wrench No. 3. Complete, in case .... 23.25

No. **222**—Set **BB**—$\frac{1}{4}$ to $\frac{3}{4}$ inch. A Stock to each Die. **7** sizes, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{9}{16}$, $\frac{5}{8}$ inch Taps, Dies and Stocks. Complete, in case ..... 24.00

No. **224**—Set **CE**—$\frac{1}{4}$ to 1 inch. A Stock to each Die. **5** sizes, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{7}{8}$, 1 inch Taps, Dies and Stocks. Complete, in case ..... 27.75

No. **226**—Set **CC**—$\frac{1}{4}$ to 1 inch. A Stock to each Die. **7** sizes, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1 inch Taps, Dies and Stocks. Complete, in case..... 33.00

No. **228**—Set **CCC**—$\frac{1}{4}$ to 1 inch. A Stock to each Die. **9** sizes, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1 inch Taps, Dies and Stocks. Complete, in case ..... 38.25

## PUMPMAKERS' LIGHTNING DIES AND STOCKS

Double Stock with $\frac{3}{8}$ and $\frac{7}{16}$ inch Dies.




No. **900**—Double Stock, with one Die each, $3/8^{14}$ and $7/16^{12}$. Complete ..... $4.50

**Prices of Dies.**

Size $3/8^{14}$ for Double Stock ..... 1.50
" $7/16^{12}$ " " " ..... 1.75

In ordering Dies separately be sure to state whether wanted for Single or Double Stock.

Will send above sets $\frac{1}{32}$ oversize, V thread, unless otherwise ordered.

## STOCKS FOR LIGHTNING AND GREEN RIVER SCREW PLATES




The above cut shows Patent Elastic Stock used with all of our Screw Plates, excepting the **Full-Mounted, Pipe** and **X** Plates.

**Prices of Stocks.**

| | | | | | |
|---|---|---|---|---|---|
| Length **10** in., | for $1\frac{5}{16}$ | in. diameter Dies | ..... | each | $2.25 |
| " **18** " | $2\frac{3}{16}$ | " " | ..... | " | 3.00 |
| " **22** " | $2\frac{7}{16}$ | " " | ..... | " | 3.00 |
| " **23** " | $2\frac{3}{4}$ | " " | ..... | " | 3.00 |
| " **29** " | $2\frac{3}{4}$ | " " | ..... | " | 3.00 |
| " **35** " | $2\frac{3}{4}$ | " " | ..... | " | 6.00 |
| " **53** " | $3\frac{7}{16}$ | " " | ..... | " | 9.00 |




No. **176**—No. **0** Stock, length 6 inches, for $\frac{7}{8}$ in diameter Dies..... .....each 1.15




No **177**—No. **0** Stock with one handle. For use in threading or sizing rods or wire in lathe. Takes any of the $\frac{7}{8}$ inch diameter Dies in No. **0** Sets. Price, without Die ..... 1.15




ELASTIC STOCK

No. **178**—No. **X** Stock, length $5\frac{1}{4}$ inches, for $\frac{3}{8}$ in. diameter Dies.. .....each 0.60

## NEW FULL-MOUNTED STOCKS

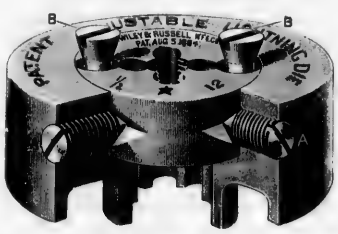



| | | | | | |
|---|---|---|---|---|---|
| Size for ..... | $\frac{1}{4}$ | $\frac{5}{16}$ | $\frac{3}{8}$ | $\frac{7}{16}$ | $\frac{1}{2}$ inch. |
| Without Die . | $0.75 | 0.75 | 0.85 | 0.90 | 1.05 |
| Size for ..... | $\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{7}{8}$ | 1 | $1\frac{1}{4}$ inch. |
| Without Die . | $1.30 | 1.35 | 1.65 | 1.90 | 2.65 |

# THE WILEY & RUSSELL MFG. CO'S

## LIGHTNING DIES

USED IN A A, B AND C SETS




The Taper-Headed Screws, B B, regulate the size. Two Binding Screws, not shown in cut, are placed opposite the two shown, A A.

In adjusting the Die, the binding screws, A A, are first slackened, and the size required fixed by moving the taper-headed screws, B B, in or out; after which the binding screws, A A, are set very tight the last thing.

### Prices of Dies and Collets for Lightning Screw Plates.

| Size | 3/16 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | inch. |
|---|---|---|---|---|---|---|---|
| Dies, each | $1.50 | 1.50 | 1.50 | 1.75 | 1 95 | 2.25 | |
| Size | 9/16 | 5/8 | 3/4 | 7/8 | 1 | inch. | |
| Dies, each | $2.40 | 2 65 | 3.00 | 3.75 | 4.50 | | |

Collets, each ..... 75c.

### Prices of Dies and Collets for Lightning Screw Plate D.

| Size | 7/8 | 1 | 1 1/8 | 1 1/4 | 1 3/8 | 1 1/2 | inch. |
|---|---|---|---|---|---|---|---|
| Dies, each | $3.75 | 4.50 | 5.25 | 6.00 | 6.75 | 7.50 | |

Collets, each ..... $1.50

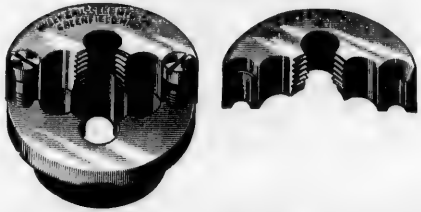
## W. & R. SOLID ROUND BOLT DIES.

FOR MACHINE USE.




| Size. | Diameter. | Price each. |
|---|---|---|
| 1/4 in. | 1 5/8 × 1/8 in. | $1.50 |
| 5/16 " | 1 5/8 × 1/8 " | 1.50 |
| 3/8 " | 1 5/8 × 3/8 " | 1.50 |
| 7/16 " | 1 5/8 × 3/8 " | 1.50 |
| 1 2 " | 1 1/4 × 9/16 " | 2.25 |
| 5/8 " | 1 1/4 × 5/8 " | 2.65 |
| 3/4 " | 2 1/8 × 1 1/2 " | 3.00 |
| 7/8 " | 2 1/8 × 1 " | 3.75 |
| 1 " | 2 5/16 × 1 " | 4.50 |

## GREEN RIVER DIES



The cut above shows a "Green River" Die and Guide taken apart to show the mechanism. The cup-headed screw on the right holds the halves firmly together, acting as a hinge, while the size is regulated by the wedge-shaped (taper head) screw on the left, the whole being clamped in the elastic stock.

For cutting close up to a shoulder, use the face side of Die after starting the thread with the other side.

### Prices of Dies and Guides for Green River Screw Plates.

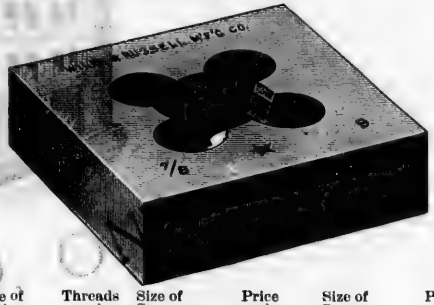
| Size | 3/16 | 1/4 | 5/16 | 3/8 | 7/16 | inch. |
|---|---|---|---|---|---|---|
| Dies, each | $1.88 | 1.88 | 1.88 | 2.25 | 2.25 | |
| Size | 1/2 | 9/16 | 5/8 | 3/4 | 7/8 | inch. |
| Dies, each | $2.25 | 2.40 | 2.65 | 3.00 | 3.75 | |
| Size | 1 | 1 1/8 | 1 1/4 | 1 3/8 | 1 1/2 | inch |
| Dies, each | $4.50 | 5.25 | 6.00 | 6.75 | 7.00 | |

Guides, each ..... 38c.

For Price of Plate Taps, see Hand Taps, page 19.

## SOLID SQUARE BOLT DIES.

FOR SETS ON PAGE 15




| Size of Die. | Threads per in. | Size of Square. | Price each. | Size of Square. | Price each. |
|---|---|---|---|---|---|
| 1/4 in. | 20 | 1 in. | $0.90 | 1 1/4 in. | $1.25 |
| 5/16 " | 18 | 1 " | 0.90 | 1 1/4 " | 1.25 |
| 3/8 " | 16 | 1 " | 0.90 | 1 1/4 " | 1.25 |
| 7/16 " | 14 | 1 " | 0.90 | 1 1/4 " | 1.25 |
| 1/2 " | 12 | 1 1/4 " | 1.25 | 1 1/4 " | 1.35 |
| 9/16 " | 12 | 1 1/4 " | 1.25 | 1 1/2 " | 1.35 |
| 5/8 " | 11 | 1 1/4 " | 1.25 | 1 1/2 " | 1.35 |
| 3/4 " | 10 | 1 1/2 " | 1.35 | 2 " | 2.00 |
| 7/8 " | 9 | 2 " | 2.00 | 2 1/2 " | 2.75 |
| 1 " | 8 | 2 " | 2.00 | 2 1/2 " | 2.75 |
| 1 1/8 " | 7 | 2 1/2 " | 2.75 | 3 " | 3.50 |
| 1 1/4 " | 7 | 2 1/2 " | 2.75 | 3 " | 3.50 |
| 1 3/8 " | 6 | 3 " | 3.50 | | |
| 1 1/2 " | 6 | 3 " | 3.50 | | |

Will send above 1/32 oversize unless otherwise ordered.

# REECE'S SCREW PLATES




**Size A**—Case containing Stock 22 in. long, Adjustable Tap Wrench, Taps, Dies and Collets, cutting ¼, 5/16, ⅜, 7/16 and ½ in. Complete, in case ..... $12.00

**Size B**—Case containing Stock 26 in. long, Adjustable Tap Wrench, Taps, Dies and Collets, cutting ½, ⅝, ¾, ⅞ and 1 in. Complete, in case ..... 17.50

**Size C**—Case containing Stock 26 in. long, Adjustable Tap Wrench, Taps, Dies and Collets, cutting ½, 9/16, ⅝, 11/16, ¾, ⅞ and 1⅛ in. Complete, in case ..... 16.00

**Size D**—Case containing Stock 26 in. long, Adjustable Tap Wrench, Taps, Dies and Collets, cutting ⅝, 11/16, ¾, ⅞, 1⅛, 1¼ and 1 in. Complete, in case ..... 22.00

**Size E**—Case containing Stock 26 in. long. Adjustable Tap Wrench, Taps, Dies and Collets, cutting ½, 9/16, ⅝, 11/16, ¾, ⅞, 1⅛, 1¼ and 1 in. Complete, in case ..... 25.00

**Size F**—Case containing Stock 53 in. long, Adjustable Tap Wrench, Taps, Dies and Collets, cutting 1⅛, 1¼, 1⅜ and 1½ in. Complete, in case ..... 37.50

**Stocks**, separate, 22 in. long, $2.00 each; 40 in., $5.00 each; 53 in., $7.00 each.

## REECE'S SCREW PLATE DIES AND COLLETS


COLLET


DIE

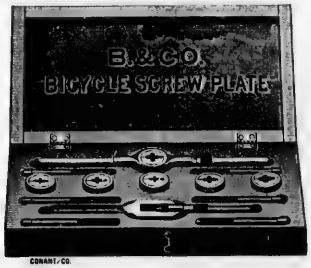

CAP

| Size of Die | ¼ & 5/16 | ⅜ & 7/16 | ½ & 9/16 | ⅝ | ¾ | ⅞ & 1 | 1⅛ & 1¼ | 1⅜ & 1½ inch. |
|---|---|---|---|---|---|---|---|---|
| Dies, per pair | $1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.75 | 4.00 | 5.00 |

Collets for 22 and 26 in. Stocks, $0.50 each; for 40 and 53 in. Stocks, $1.50 each.

Caps only, for Collets, 22 and 26 in Stocks, $0.20 each; for 40 and 53 in. Stocks, $0.50 each.

## B. & C. BICYCLE SCREW PLATES




No. **151**—Case containing **5** sizes Taps, Dies and Guides, with Adjustable Tap Wrench ..... per case $6.30

No. **153**—Case containing **6** sizes Taps, Dies and Guides, with Adjustable Tap Wrench ..... per case 7.10

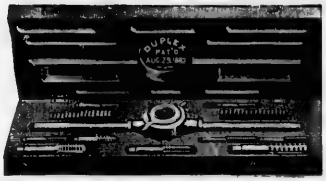
No. **157**—Case containing **10** sizes Taps, Dies and Guides, with Adjustable Tap Wrench ..... per case 10.20

Regular Wire Gauge sizes of Dies and Taps carried in stock, Nos. $11^{56}$, $12^{48}$, $12^{56}$, $13^{48}$, $13^{56}$, $14^{56}$, $15^{56}$, $16^{56}$, $17^{56}$.

**Prices of Single Parts**

| | | |
|---|---|---|
| Stocks, 6 inches long | each | $1.00 |
| Dies, ⅞ inch diameter | " | 0.40 |
| Guides for Dies | " | 0.20 |
| Taps, see Machine Screw Taps, page 18; Wrenches, see page 17. | | |
| Cases | " | 0.40 |

## DUPLEX DIE STOCK




Can be opened and taken off without turning back, and instantly reset again for cut, thereby doing one-third more work than any other Die. Dies can be taken out and sharpened on grindstone and reset to desired size without trial.

A quarter turn of face-plates will instantly release or lock Dies firmly in position. No wrench or screw-driver needed for any adjustment.

**FOR MACHINISTS AND MODEL MAKERS**

AA { 1/32, 5/64, 1/24, 5/64, 1/20, 3/64, 1/18, 7/64, 1/16, 1/14, 1/12 — Put up in case with 7 Taps and 7 sets of Dies.. $22.50

A { 1/20, 5/64, 1/18, 3/32, 1/16, 7/64, 1/14, 1/8&5/64, 1/12, 5/64, 1/11, 3/32, 1/10 — Put up in case with 8 Taps and 7 sets of Dies.. 30.00

**FOR BLACKSMITHS AND CARRIAGE MAKERS**

AA { 1/8&3/64, 1/24, 1/4&5/64, 1/18, 3/8&7/64, 1/14, 1/3, 1/12 — Put up in case with 7 Taps and 4 sets of Dies.. 18.00

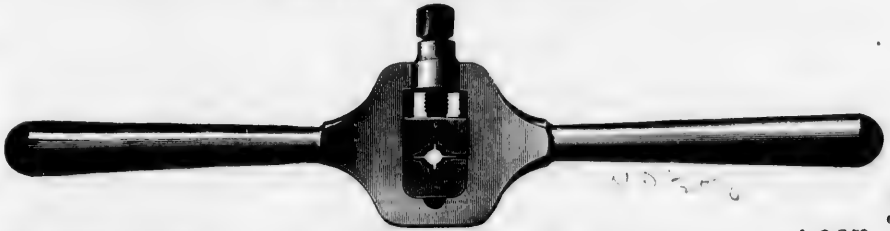
A { 1/4&5/64, 1/18, 5/16&7/64, 1/14, 1/4&5/64, 1/12, 5/16&3/32, 1/10 — Put up in case with 8 Taps and 4 sets of Dies.. 25.50

**Price of Extra Dies for Bolts**

| | | |
|---|---|---|
| No. AA, per single set | | 1.50 |
| " A, " " | | 1.90 |

# MORSE TWIST DRILL AND MACHINE CO'S

## SCREW PLATES AND DIES

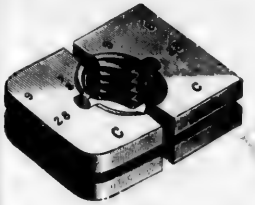


| | | | | Single Pair of Dies. |
|---|---|---|---|---|
| Size A, with 3 pair Dies, cutting $\frac{1}{16}$, $\frac{3}{32}$, $\frac{1}{8}$ | each | $ 7.50 | | $1.50 |
| " B, " 4 " " $\frac{1}{16}$, $\frac{3}{32}$, $\frac{1}{8}$, $\frac{5}{32}$ | " | 12.00 | | 1.90 |
| " C, " 4 " " $\frac{3}{32}$, $\frac{1}{8}$, $\frac{5}{32}$, $\frac{3}{16}$ | " | 15.00 | | 2.60 |
| " D, " 4 " " $\frac{1}{8}$, $\frac{5}{32}$, $\frac{3}{16}$, $\frac{1}{4}$ | " | 19.50 | | 3.00 |
| " E, " 6 " " $1\frac{1}{8}$, $1\frac{1}{16}$, $1\frac{1}{8}$, $1\frac{1}{4}$, $1\frac{5}{16}$, $1\frac{3}{8}$ | " | 54.45 | | 4.95 |

TAPS EXTRA.

Other sizes in standard Dies can be supplied with above sets.

### DIES FOR SCREW PLATES



## No. 1 SCREW PLATE AND DIES



For the use of Model Makers and Jewellers, cutting $\frac{1}{40}$, $\frac{3}{64}$, $\frac{1}{32}$, $\frac{5}{64}$, $\frac{3}{32}$.

No. 1 Screw Plate, with 5 pairs of Dies and 5 Taps, as above ..... $6.75

Single pair of Dies ..... 0.60

## MORSE'S ADJUSTABLE TAP WRENCH No. 0



No. 0 Wrench, fitting Taps from $\frac{0}{1}$ to $\frac{1}{4}$, inclusive, entire length $5\frac{1}{8}$ inches ..... $2.40

Fitting Squares from $\frac{1}{16}$ to $\frac{1}{4}$ inch inclusive.

## SCREW PLATES AND TAPS WITH SOLID DIES

| | | |
|---|---|---|
| Set A, cutting $\frac{1}{16}$, $\frac{3}{32}$, $\frac{1}{8}$, and $\frac{7}{16}$ inch | per set | $5.00 |
| " B, " $\frac{1}{16}$, $\frac{3}{32}$, $\frac{1}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, and $\frac{5}{8}$ inch | " | 8.75 |
| " C, " $\frac{1}{16}$, $\frac{3}{32}$, $\frac{1}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{5}{8}$, and $\frac{3}{4}$ inch | " | 10.00 |
| " D, " $\frac{1}{8}$, $\frac{5}{32}$, and $\frac{3}{16}$ inch | " | 5.75 |
| " E, " $\frac{3}{16}$, $\frac{7}{32}$, and 1 inch | " | 8.50 |
| " F, " $\frac{1}{4}$, 1, $1\frac{1}{8}$, and $1\frac{1}{4}$ inch | " | 14.75 |
| " G, " $1\frac{1}{8}$, $1\frac{1}{4}$, $1\frac{3}{8}$, and $1\frac{1}{2}$ inch | " | 22.00 |

For Price of Dies separate, see page 13.






No. 181A

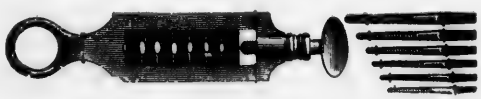
## "STUBS'" SCREW PLATES AND TAPS

SOLID PLATES.

| | | | | |
|---|---|---|---|---|
| No. 179, cutting | 7 | sizes from $\frac{1}{16}$ to $\frac{1}{4}$ inch | each | $1.45 |
| " 179, " | 8 | " " $\frac{1}{4}$ to $\frac{1}{4}$ " ... | " | 1.65 |
| " 179, " | 10 | " " $\frac{5}{32}$ to $\frac{1}{4}$ " ... | " | 2.25 |
| " 181, " | 10 | " " $\frac{1}{4}$ to $\frac{1}{2}$ " ... | " | 2.25 |
| " 181A, " | 10 | notched sizes from $\frac{1}{4}$ to $\frac{1}{2}$ in. | " | 3.20 |
| " 181A, " | 10 | " " " $\frac{3}{8}$ to $\frac{1}{16}$ " | " | 4.50 |

## GERMAN SCREW PLATES AND TAPS

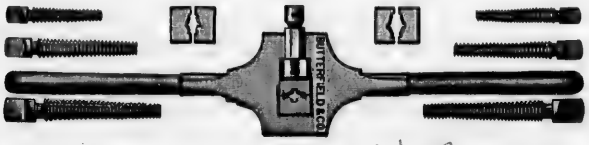
ON CARDS.



No. 847—6 inch, adjustable, cutting 5 sizes, $\frac{1}{16}$ to $\frac{1}{32}$ ..... each $1 90

" 847—8 " " " 6 " $\frac{1}{32}$ to $\frac{1}{4}$ ..... " 2.15

# BLACKSMITHS' STOCKS, DIES AND TAPER TAPS

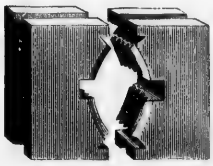



| Number. | Size Right Hand. | Threads to the Inch. | Size Left Hand. | Threads to the Inch. | Number of Taps. | Number of Dies. | Price each. |
|---|---|---|---|---|---|---|---|
| **7** | 1¼ to ⅜ in. | 8 and 10 | 1¼ to ⅞ in. | 8 | 6 | 3 | $12.00 |
| **17** | 1 " ⅜ | 9 and 12 | 1 " ⅞ | 9 | 6 | 3 | 9.00 |
| **19** | 1 " ⅜ | 9, 12 and 14 | | | 6 | 3 | 9.00 |
| **25** | ¾ " ⅜ | 10 and 16 | ¾ " ½ | 10 | 6 | 3 | 6.50 |
| **27** | ¾ " ⅜ | 10, 12 and 16 | | | 6 | 3 | 6.50 |
| **45** | ½ " 1/16 | 12 and 16 | ½ " 7/16 | 12 | 6 | 3 | 5.50 |
| **47** | ½ " ¼ | 12, 14 and 18 | | | 6 | 3 | 5.50 |
| **49** | ½ " ¼ | 14 and 18 | ½ " 5/16 | 14 | 6 | 3 | 4.50 |
| **51** | ½ " 1/16 | 14, 18 and 22 | | | 6 | 3 | 4.50 |




| Number. | Size Right Hand. | Threads to the Inch. | Size Left Hand. | Threads to the Inch. | Number of Taps. | Number of Dies. | Price each. |
|---|---|---|---|---|---|---|---|
| **21** | 1 to ⅛ in. | 9 and 12 | 1 to ⅜ in. | 9 | 4 | 3 | $6.00 |
| **23** | 1 " ⅜ | 9, 10 and 14 | | | 3 | 3 | 5.00 |
| **32** | ¾ " ⅜ | 10 and 14 | ¾ " ⅜ | 10 and 14 | 4 | 4 | 5.00 |
| **34** | ¾ " 1/16 | 10, 12 and 16 | | | 3 | 3 | 4.50 |
| **35** | ¾ " ⅜ | 10 and 14 | | | 2 | 2 | 4.00 |
| **37** | ½ " 1/16 | 14, 18 and 22 | | | 6 | 3 | 4.25 |
| **41** | ½ " ⅛ | 16, 20 and 26 | | | 6 | 3 | 3.25 |
| **42** | ½ " 1/16 | 14 and 20 | ½ " 5/16 | 14 | 6 | 3 | 3.50 |
| **53** | 1/16 " 1/16 | 16, 20 24 and 32 | | | 4 | 4 | 2.75 |

## EXTRA BLACKSMITHS' DIES

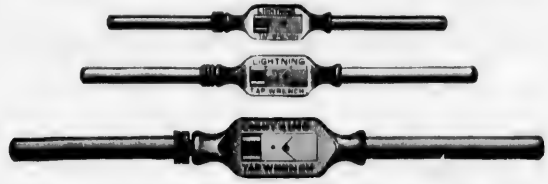


| | Price per Full Set. | Price Per Pair. | | Price per Full Set. | Price Per Pair. |
|---|---|---|---|---|---|
| For No. **7** Stock | $4.40 | $1.50 | For Nos. **25**, **27**, **32**, **45** and **47** Stock | $2.80 | $0.95 |
| For Nos. **17** and **19** Stock | 3.15 | 1.05 | For Nos. **34**, **49** and **51** Stock | 2.50 | 0.95 |
| For No. **21** Stock | 2.50 | 1.05 | For Nos. **35**, **37**, **41** and **42** Stock | 1.90 | 0.95 |

**In ordering new dies the best way is to send us an old die by mail.**

# THE WILEY & RUSSELL MFG. CO'S

## LIGHTNING ADJUSTABLE TAP WRENCHES

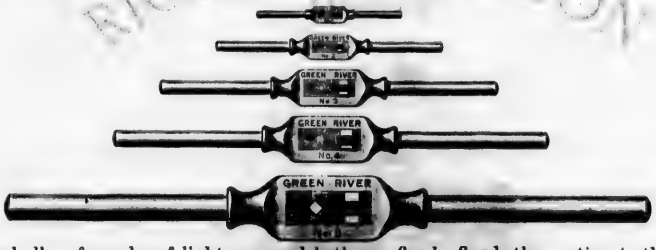


They will be found extremely convenient and their use is a great saving of taps.
They are made in the very best manner and of the very best material.

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | **330**— | Size | **A**, | length | 10½ | inches, | for Taps | $\frac{0}{00}$ | in. to | ½ | in. . . . each | $4.50 |
| " | **331**— | " | **B** | " | 15 | " | " | ¼ | " | ¾ | " . . . " | 5.25 |
| " | **332**— | " | **C** | " | 20 | " | " | ⅜ | " | 1 | " . . . " | 7.50 |

These Wrenches are light, strong and durable.

## GREEN RIVER ADJUSTABLE TAP WRENCHES



The handles are hollow for sake of lightness, and both are firmly fixed, the motion to the jaws being given through an independent knurled nut. The jaws, of ample size, are made of fine tool steel, and run on gibs full length, true and strong.

The stock is drop-forged, and the whole thoroughly made in every particular, complete and durable.

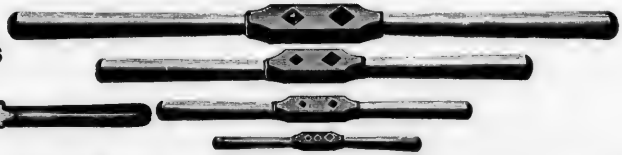
| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | **335**— | Size | No. **1**, | length | 7 | inches, | for Taps | ¼ | inch and smaller. . . . each | $2.63 |
| " | **336**— | " | **2** | " | 11 | " | " | $\frac{0}{00}$ | to ½ inch inclusive . . . " | 3.53 |
| " | **337**— | " | **3** | " | 16 | " | " | ¼ | " ⅝ " " . . . " | 4.50 |
| " | **338**— | " | **4** | " | 19 | " | " | ¼ | " 1 " " . . . " | 6.00 |
| " | **339**— | " | **5** | " | 31 | " | " | ⅜ | " 1½ " " . . . " | 12.00 |

## ADJUSTABLE TAP WRENCHES



| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Size | **A**, | Fitting | Taps | from | ¼ | to | ⅝ | inch | inclusive, | length | 13 inches. . . . price, each | $4.50 |
| " | **B**, | " | " | " | ⅝ | " | 1 | " | " | " | 18 " . . . " | 6.00 |
| " | **C**, | " | " | " | ⅞ | " | 1½ | " | " | " | 23 " . . . " | 7.50 |

## SOLID TAP WRENCHES



## ADJUSTABLE TAP WRENCHES



| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | **0**—5 | inches | long, | for | Taps | $\frac{1}{16}$ | to | ⅛ | in. . . . . each | $1.00 |
| " | **1**— 8 | " | " | " | " | ⅛ | " | ⅜ | " . . . . . " | 1.50 |
| " | **2**—12 | " | " | " | " | ¼ | " | ½ | " . . . . . " | 2.00 |
| " | **3**—14 | " | " | " | " | ⅜ | " | ¾ | " . . . . . " | 3.00 |
| " | **4**—19 | " | " | " | " | ½ | " | 1 | " . . . . . " | 4.00 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | **11**—Holds | ¼, | $\frac{7}{16}$ | and | ⅝ | in. | Taps . . . . . each | $0.40 |
| " | **12**— | " | $\frac{7}{16}$ | " | ½ | " | " . . . . . " | 0.75 |
| " | **13**— | " | ½ | " | ¾ | " | " . . . . . " | 1.00 |
| " | **14**— | " | ⅝ | " | 1 | " | " . . . . . " | 1.50 |

# THE WILEY & RUSSELL MFG. CO'S

## GREEN RIVER PATENT RIM WRENCH

No. **600**



FOR NUTS ON THE TIRE BOLTS INSIDE THE FELLOE.

No. **600**—This is a labor-saving tool for taking off and putting on nuts in an awkward place inside carriage felloes. It is adapted for use on Nuts $\frac{1}{2}$, $\frac{5}{16}$, $\frac{3}{4}$ inch. Price ..... $2.25

## LIGHTNING NUT WRENCHES FOR BIT BRACE USE



FOR SQUARE AND HEXAGON NUTS.

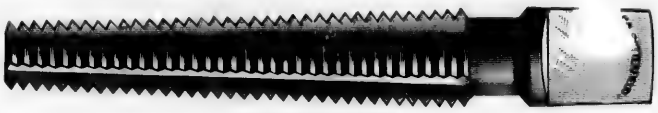
No. **602**—Set of 5 Wrenches for Nuts $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$ and $\frac{1}{2}$ inch. Price ..... $1.15

## CROSS RIM WRENCH



No. **601**—For Nuts $\frac{5}{16}$, $\frac{1}{2}$, $\frac{7}{8}$ and $\frac{3}{4}$ inch .... each $0.38

## BLACKSMITHS' TAPER AND PLUG TAPS



RIGHT OR LEFT HAND.

| Size. | Threads to the Inch. | Price, each Tap. | Size. | Threads to the Inch. | Price, each Tap. |
|---|---|---|---|---|---|
| 3/16 inch. | 18, 20, 22, 24 and 26 | $0.30 | 9/16 inch. | 12 and 14 | $0.50 |
| 1/4 " | 14, 16, 18, 20, 22 and 24 | 0.30 | 5/8 " | 10, 12, 14 and 16 | 0.50 |
| 5/16 " | 14, 16, 18, 20 and 22 | 0.30 | 3/4 " | 8, 9, 10, 12 and 14 | 0.65 |
| 3/8 " | 12, 14, 16, 18 and 20 | 0.35 | 7/8 " | 9 and 10 | 0.90 |
| 7/16 " | 12, 14, 16, 18 and 20 | 0.40 | 1 " | 7, 8 and 9 | 1.25 |
| 1/2 " | 10, 12, 14, 16 and 18 | 0.40 | 1 1/4 " | 6, 7, 8 and 9 | 1.75 |

## MACHINE SCREW TAPS



| Number | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 24 inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Price, each | $0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.38 | 0.38 | 0.38 | 0.45 | 0.45 |

## WILEY & RUSSELL SCREW PLATE TAPS




FOR X, X FULL-MOUNTED AND No. O SETS.

Price for regular sizes as enumerated with sets on pages 7 and 9.....each $0.40

## STOVE BOLT TAPS




| Size | 5/32 | 3/16 | 7/32 | 1/4 | 5/16 | 3/8 inch. |
|---|---|---|---|---|---|---|
| Price, each | $0.35 | 0.35 | 0.35 | 0.38 | 0.38 | 0.45 |

## BIT BRACE TAPS




| Size | 3/16 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 inch. |
|---|---|---|---|---|---|---|
| Price, each | $0.50 | 0.50 | 0.55 | 0.60 | 0.70 | 0.80 |

# TAPS

## PULLEY TAPS




PRICE EACH.

| Sizes. | No. of Threads to Inch. | 6 Inch. | 8 Inch. | 10 Inch. | 12 Inch. | 14 Inch. | 16 Inch. | 18 Inch. | 20 Inch. | 22 Inch. | 24 Inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3/8 | 16 | $0.80 | 0.80 | 1.10 | 1.30 | 1.40 | 1.60 | 1.80 | .... | .... | .... |
| 7/16 | 14 | $0.90 | 1.00 | 1.20 | 1.40 | 1.50 | 1.70 | 1.90 | .... | .... | .... |
| 1/2 | 12 | $1.00 | 1.30 | 1.40 | 1.50 | 1.60 | 1.80 | 2.00 | 2.20 | .... | .... |
| 9/16 | 12 | $1.10 | 1.35 | 1.45 | 1.55 | 1.70 | 1.85 | 2.10 | 2.30 | 2.50 | .... |
| 5/8 | 11 | $1.20 | 1.40 | 1.50 | 1.60 | 1.75 | 1.90 | 2.20 | 2.40 | 2.60 | 2.80 |

## STAY BOLT TAPS

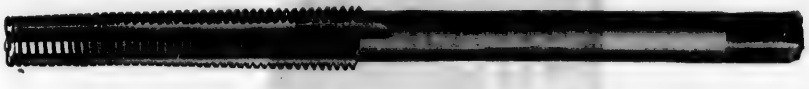



PRICE EACH.

| Diameter, Inch. | 16 Inch. | 18 Inch. | 21 Inch. | 24 Inch. | 27 Inch. | 30 Inch. | 33 Inch. | 36 Inch. | 39 Inch. | 42 Inch. | 48 Inch. | 54 Inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3/4, 13/16, 7/8 | $ 5.00 | 7.20 | 8.00 | 8.80 | 10.00 | 13.00 | 14.00 | 15.00 | 16.50 | 18.00 | 19.00 | 20.00 |
| 15/16, 1 | $ 6.00 | 8.50 | 9.35 | 10.20 | 12.25 | 14.25 | 15.40 | 16.50 | 18.00 | 19.75 | 21.00 | 22.25 |
| 1 1/16, 1 1/8 | $ 7.00 | 9.50 | 10.35 | 11.20 | 13.25 | 15.25 | 16.40 | 17.50 | 20.00 | 22.00 | 23.50 | 25.00 |
| 1 3/16, 1 1/4 | $ 9.00 | 10 50 | 12.00 | 12.75 | 14.75 | 16.50 | 18.00 | 19.50 | 22.00 | 24.00 | 25.50 | 27.00 |
| 1 5/16, 1 3/8 | $11.00 | 12.50 | 14.00 | 15.00 | 17.00 | 18.50 | 20.00 | 21.50 | 24 00 | 26.00 | 28.00 | 30.00 |
| 1 7/16, 1 1/2 | $13.00 | 14.50 | 16.00 | 17.00 | 19.00 | 20.00 | 22.00 | 23.50 | 26.00 | 28.00 | 30.00 | 32.00 |

All orders for these Taps should give exact diameter and number of threads per inch, also length of parts A, B, C, D and E. Unless otherwise ordered, we shall send these Taps with twelve threads to the inch, exact size.

## MACHINE, OR NUT TAPS



| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diameter..... | 3/16 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 9/16 | 5/8 | 11/16 | 3/4 | 13/16 | inch. |
| No. of Threads | 24 | 20 | 18 | 16 | 14 | 12 | 12 | 11 | 11 | 10 | 10 | |
| Price, each.... | $0.60 | 0.60 | 0.70 | 0.80 | 0.90 | 1.00 | 1.15 | 1.30 | 1.45 | 1.60 | 1.80 | |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diameter..... | 7/8 | 15/16 | 1 | 1 1/8 | 1 1/4 | 1 3/8 | 1 1/2 | 1 5/8 | 1 3/4 | 1 7/8 | 2 | inch. |
| No. of Threads | 9 | 9 | 8 | 7 | 7 | 6 | 6 | 5 | 5 | 5 | 4 1/2 | |
| Price, each.... | $2.10 | 2.40 | 2.80 | 3.20 | 3.70 | 4.20 | 4.70 | 5.30 | 6.00 | 6.80 | 7.70 | |

These will be sent 1/64 oversize unless otherwise ordered.

## MACHINISTS' HAND TAPS




Taper.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Diameter..... | 3/16 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | inch. |
| No. of Threads. | 24 | 20 | 18 | 16 | 14 | 12 | |
| Price, each.... | $0.45 | 0.45 | 0.50 | 0.55 | 0.60 | 0.70 | |




Plug.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Diameter..... | 9/16 | 5/8 | 3/4 | 7/8 | 1 | 1 1/8 | inch. |
| No. of Threads. | 12 | 11 | 10 | 9 | 8 | 7 | |
| Price, each.... | $0.80 | 0.90 | 1.20 | 1.60 | 2.00 | 2.25 | |



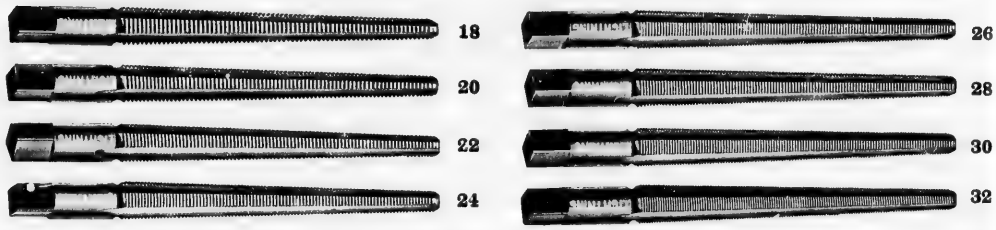

Bottoming.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Diameter..... | 1 1/4 | 1 3/8 | 1 1/2 | 1 3/4 | 1 7/8 | 2 | inch. |
| No. of Threads. | 7 | 6 | 5 | 5 | 5 | 4 1/2 | |
| Price, each.... | $2.60 | 3.00 | 3.50 | 5.00 | 5.80 | 6.70 | |

In ordering mention if exact, 1/64 or 1/32 oversize, and say whether Taper, Plug or Bottoming is wanted.

# THE WILEY & RUSSELL MFG. CO'S

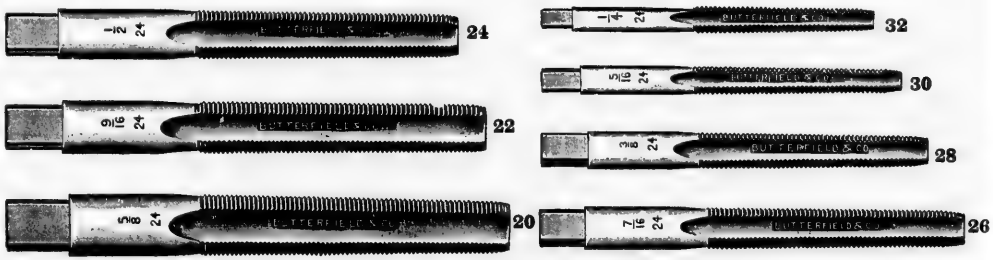
## BICYCLE TAPER TAPS FOR REPAIRERS




| | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. 1 | Size $\frac{7}{16}$ | tapering to | $\frac{14}{64}$, | 4 inches long, | Threads 18 to 32 | each | $1.00 |
| " 2 | " $\frac{9}{16}$ | " | $\frac{32}{64}$, | 4 " | " 18 to 32 | " | 1.30 |
| " 3 | " $\frac{11}{16}$ | " | $\frac{9}{64}$, | 4 " | " 18 to 32 | " | 1.65 |

Finely made, machine relieved with very gradual taper.

## B. & CO'S BICYCLE TAPER TAPS FOR REPAIRERS




| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Diameter $\frac{1}{4}$, | Threads 20 to 32 | each | $0.45 | Diameter $\frac{1}{2}$, | Threads 20 to 32 | each | $0.70 |
| " $\frac{5}{16}$ | " 20 to 32 | " | 0.50 | " $\frac{9}{16}$ | " 20 to 32 | " | 0.80 |
| " $\frac{3}{8}$ | " 20 to 32 | " | 0.55 | " $\frac{5}{8}$ | " 20 to 32 | " | 0.90 |
| " $\frac{7}{16}$ | " 20 to 32 | " | 0.60 | | | | |

The "Diameter" given in this table is that of the largest part of the Tap.

## INSIDE AND OUTSIDE CHASERS



Chasers for cutting standard pitches, 3 to 8 ..... each $1.15
" " " 9 to 30 ..... " 0.80

## PIPE TAPS AND REAMERS



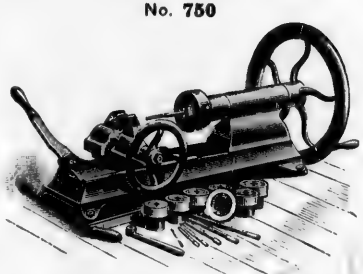

| Size | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | 1 | 1¼ | 1½ | 2 | 2½ | 3 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pipe Taps | $1.12 | 1.25 | 1.50 | 1.87 | 2.50 | 3.12 | 3.75 | 4.62 | 6.25 | 10.50 | 15.00 | |
| Pipe Reamers | $1.12 | 1.25 | 1.50 | 1.87 | 2.50 | 3.12 | 3.75 | 4.62 | 6.25 | 10.50 | 15.00 | |

Pipe Taps with Right or Left Hand Threads and Reamers having taper $\frac{3}{4}$ inch per foot, also Plug Pipe Taps, are kept in stock.

# THE WILEY & RUSSELL MFG. CO'S

## HAND BOLT-CUTTER AND NUT-TAPPER No. 0

**No. 750**



Made to be bolted to the bench or table. Fitted with 7 sizes, from ¼ inch to ¾ inch. Usual assortment, ¼, 5/16, ⅜, 7/16, ½, ⅝ and ¾ inch.

No. **750**—Price, with Taps, Dies in Collets, Tap Chuck, Wrench, etc., complete, with balance wheel ..... $75.00

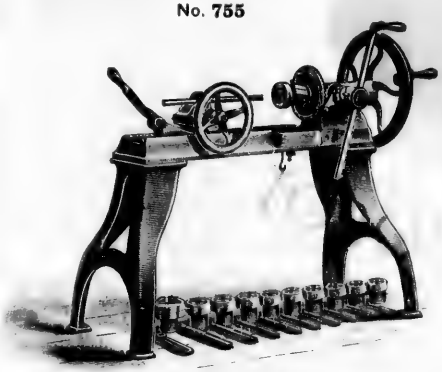
No. **751**—As above, but without balance wheel... 70.50

Shanks of Collets, 2 inches in diameter.
Weight, 200 pounds.

When desired, we furnish ⅞ inch Tap, Die and Collet with this machine, charging $6.15 extra, but recommend the No. 20 or No. 10 Machine for sizes larger than ¾ inch.

The cut represents the Machine with a balance-wheel attached. We can recommend the wheel as a decided improvement, it being very handy in running back fast after finishing a screw. Pulley for belt can be furnished instead of the balance-wheel, when desired, at the same price, making a very handy and efficient machine for light work by power.

**No. 755**



**No. 20, MOUNTED.**

For the bench or mounted. Fitted with 9 sizes, ¼ inch to 1 inch. Usual assortment, ¼, 5/16, ⅜, 7/16, ½, ⅝, ¾, ⅞ and 1 inch.

No. **754**—Price, with Taps, Dies in Collets, Chuck, Wrenches, etc., complete for the bench ..... $105.00

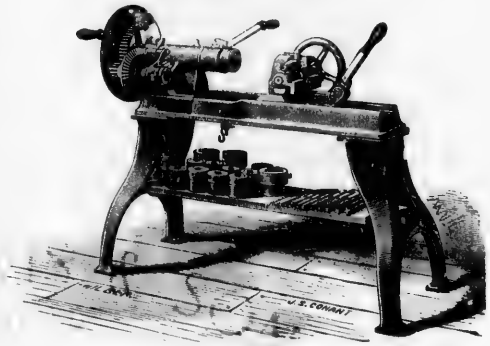
No. **755**—Mounted, with iron legs..... ..... 115.50

Shanks of Collets are 2 inches in diameter.

Price of Collets, each ..... 1.35

For Prices of Taps and Dies separately, see pages 13 and 19.

## BOLT-CUTTER, NUT-TAPPER AND PIPE-THREADER No. 10



**MOUNTED.**

The capacity of this machine is, for bolts and nuts, 5/16 inch to 1½ inch, and for pipe, ⅛ inch to 2 inch. Any crooked or odd-shaped pieces may be threaded without straightening. The engraving shows a ¾ inch staple in the vise. The spindle is hollow, and bolts of any length may be cut. Bolts and nuts, say ⅝ inch and under, are rapidly done, with the gears out, by the handle on the balance-wheel, in which wheel, moreover, the crank may be placed when desired. For large work the gearing multiplies the direct force of the crank at the side of the machine between six and seven-fold, and the arrangement is such that the Die being run sufficiently far on the work, the gears may instantly be thrown out and the Die whirled swiftly back off the thread by means of the balance-wheel.

Extra steel dogs are attached to the vise to secure large smooth pipe which might sometimes slip in the jaws.

The oil poured on the work is drained into a basin under the chuck, and can be used again.

The remarkably great range of this machine makes it a favorite—it being equally excellent on very large, very small, crooked or straight bolts (with nuts), and on pipe.

Weight of Bench Machine, boxed, 450 pounds; Mounted Machine, 600 pounds.

We subjoin two different assortments or sizes of Taps and Dies, with prices.

No. **758**—Assortment 1—Machine complete, with Taps and Dies in Collets for bolts and nuts, ¼, 5/16, ⅜, 7/16, ½, ⅝, ¾, ⅞, 1, 1¼, 1½, 1¾ and 1½ inch Chuck, Wrenches, etc., for bench. Price ..... $200.25

No. **759**—Same as above, mounted on iron legs. Price ..... 217.50

No. **762**—Machine complete, with Adjustable Dies and Collets for pipe, right-hand, ⅛, ¼, ⅜, ½, ¾, 1, 1¼, 1½ and 2 inch, for bench. (No Tap Chuck.) Price ..... 145.50

No. **763**—Same as above, mounted on iron legs. Price ..... 156.75

**Pipe Set**—Can supply Adjustable Pipe Dies and Collets right hand, ⅛ to 2 inches, 9 sizes, with assortment No. 1, at extra ... 45.00

For Prices of Taps and Dies, see pages 13 and 19.

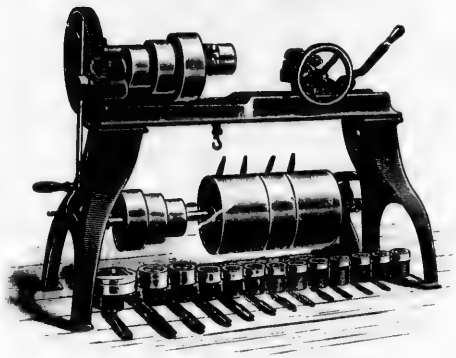
Holders supplied for using common solid Pipe Dies with this Machine, when desired, at $1.50 each. Shanks of Collets for Dies are 3 inches in diameter.

Will send the Taps and Dies for above ⅛ oversize, V thread, unless otherwise ordered.

## GREEN RIVER BOLT-CUTTER, NUT-TAPPER AND PIPE-THREADER

### No. 42

Showing Plain Countershaft.



For Power or Hand Use.

The capacity of this machine is for ¼ to 1½ inch bolts and nuts and ⅛ to 2 inch pipe. It does equally well straight or crooked work. Has three changes of speed; takes 3 in. belt; hollow spindle; hole through spindle 1⅛ inch. Collets have 3 inch shanks.

The vise is made to center and hold properly the various sizes, and to take work of irregular shapes. The attachment to enable this machine to be used by hand is frequently of service on repair work at times when power is not available. It can be thrown out of gear when not in use.

Speed of countershaft should be 125 revolutions per minute. Weight of machine complete, 650 lbs.

No. **780**—Assortment 1—Machine complete, with Chuck and Wrenches and Plain Countershaft, having tight and loose pulleys 12 inches in diameter, and Taps, Dies and Collets for bolts and nuts ¼, ⅛, ⅜, ⅛, ½, ⅝, ¾, ⅞, 1, 1¼ and 1½ in ..... $225.00

No. **781**—Assortment 2—Machine complete, with Chuck and Wrenches and Plain Countershaft, having tight and loose pulleys 12 inches in diameter, and Taps, Dies and Collets for bolts and nuts, ¼, ⅛, ⅜, ⅛, ½, ⅝, ¾, ⅞ and 1 in ..... 205.50

No. **782**—Assortment 3—For Pipe. Machine complete (no tap chuck), with Wrenches and Plain Countershaft, having tight and loose pulleys 12 inches in diameter, and one right-hand Adjustable Pipe Die and Collet, each ⅛, ¼, ⅜, ½, ¾, 1, 1¼, 1½ and 2 in. 195.75

Can supply Adjustable Pipe Dies and Collets, right-hand, ⅛ to 2 inches, nine sizes, with Assortments Nos. 1 and 2 (Patent Adjustable Dies), at extra ..... 45.00

Extra for 1⅝ inch Tap, Die and Collet (for bolts and nuts) ..... 11.25

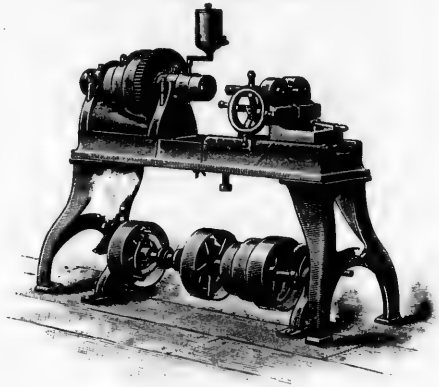
Extra for 1¼ inch Tap, Die and Collet (for bolts and nuts) ..... 12.75

Will send the Dies and Taps, for bolts and nuts, for this Machine $\frac{1}{32}$ oversize, V thread, unless otherwise ordered.

## GREEN RIVER BOLT-CUTTER, NUT-TAPPER AND PIPE-THREADER

### No. 45

Shown with Patent Friction Countershaft



For Power Only.

The capacity is for bolts and nuts ¼ to 2 inches, and pipe ⅛ to 2 inches. It is powerfully back-geared. The gears can be thrown out, as in an engine lathe, for small work and also in running back after cutting screws. Has 6 changes of speed; takes 3½ inch belt. The chips and oil are caught in bed, and the oil can be strained and used again. Has oil reservoir; hollow spindle; hole through spindle, 2½ inches; collets have 3 inch shank. The vise is the best one we make, and will hold properly the various shapes and sizes of iron, the jaws having 3 changes to enable iron, large or small, to be properly grasped. The great advantage of this, in keeping the jaws sharp and in good order, will be appreciated.

Speed of countershaft should be 125 revolutions per minute. Weight of Machine, complete, 1000 pounds.

No. **785**—Assortment 1—Machine complete, with Chuck and Wrenches and Patent Friction Countershaft, 12 inches in diameter, and Taps, Dies and Collets for bolts and nuts ¼, ⅛, ⅜, ⅛, ½, ⅝, ¾, ⅞, 1, 1⅛, 1¼, 1⅜, 1½ inches $360.00

No. **786**—Assortment 2—Machine complete with Chuck and Wrenches and Patent Friction Countershaft, 12 inches in diameter, and Taps, Dies and Collets for bolts and nuts ⅜, ⅞, ½, ⅝, ¾, ⅞, 1, 1¼, 1½ inches ..... 330.00

No. **787**—Assortment 3—For Pipe. Machine complete (no Tap Chuck) with Wrenches, Patent Friction Countershaft, 12 inches in diameter, and one right-hand Adjustable Pipe Die and Collet, each ⅛, ¼, ⅜, ½, ¾, 1, 1¼, 1½ and 2 inches ..... 307.50

Can supply Adjustable Pipe Dies and Collets, right-hand, ⅛ to 2 inches, 9 sizes, with Assortments Nos. 1 and 2, at extra ..... 45.00

Extra for 1⅝ inch Tap, Die and Collet (for bolts and nuts) ..... 22.15

Extra for 2 inch Tap, Die and Collet (for bolts and nuts) ..... 27.00

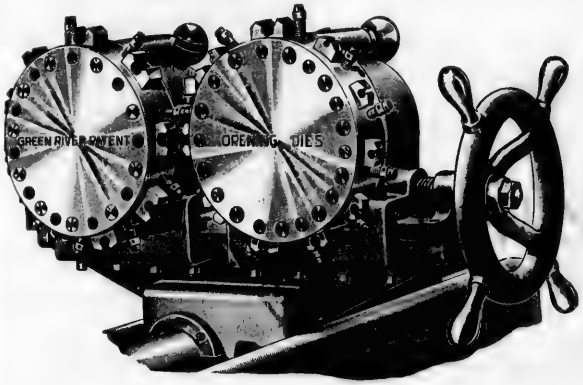
Will send the Dies and Taps, for bolts and nuts, for this Machine $\frac{1}{32}$ oversize, V thread, unless otherwise ordered.

If Plain Countershaft, having tight and loose pulleys, 12 inches in diameter, is wanted, instead of our Patent Friction Countershaft, we can reduce price on above assortments by ..... $19.50

# THE WILEY & RUSSELL MFG. CO'S

## GREEN RIVER PATENT OPENING DIES, HOLDERS AND CARRIAGE

### SUPPLIED WITH BOLT CUTTER, No. 50




The Dies do not need to be adjusted, but stand always ready for work. With Opening-Dies, bolts or pipe are instantly released when threaded, without running backwards over the screw, thereby saving nearly half the time, and also much wear on the Dies. By simply turning the hand wheel the Dies separate, and the work can be taken out.

We know of no Opening-Die arrangement which can approach ours for quickness and convenience in threading bolts or pipe. It is very simple and strong, so that workmen of ordinary skill can use it with good results and without the danger of breaking.

**THE DIES** are secured in two equal wheels (Die-Holders), set side by side and controlled by a right and left screw, each Die being divided, the half in one wheel opposite to the half in the other, in such a manner that a complete working Die is made by bringing the wheels together, and the finished screw released by separating them, thus saving running back over the threads.

Each Die has independent stop-pins controlling its cut, which can be either shortened or lengthened, enabling a perfect adjustment to be maintained, all the different Dies standing ready for use, so that any size may at once be brought into line by turning the wheels to the proper places, thereby making it possible to thread a lot of bolts of different sizes almost as quickly as if all were of the same size. Each Die cuts a full thread at one operation, and the hollow spindle allows a screw of any desired length to be cut.

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**Machine** only, including Chuck and Nut-Holders ..... $232.50

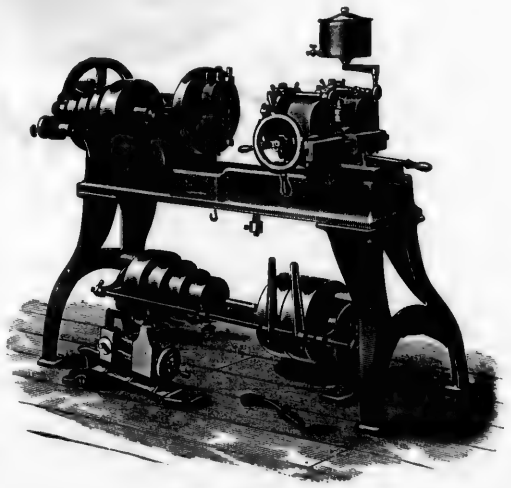
**Plain Countershaft**, having one tight and loose pulley, 12 in. diameter, 3½ in. face, for cutting right-hand threads only ..... 22.50

**Set for Pipe**—Consisting of one pair of Die-Holders (Disks), and Pipe Dies (right-hand), adjusted, of following sizes: ¼, ⅜, ½, ¾, 1, 1¼, 1½, 2 inches..... 75.75

**Set for Bolts**—Consisting of one pair of Die-Holders (Disks), and Dies and Taps, adjusted, of the following sizes: ⅜, 7/16, ½, ⅝, ¾, ⅞, 1, 1¼, 1½ inches, for bolts and nuts. ..... 77.63

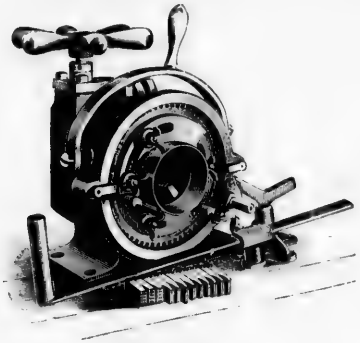
No. **50**—Complete as above ..... $408.38

Capacity is for pipe ¼ to 2 inches, and bolts and nuts ¼ to 2 inches.

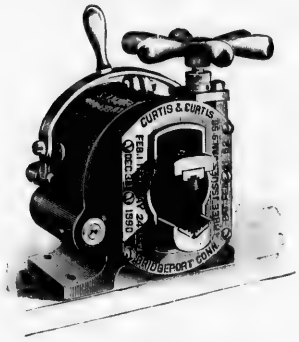


**No. 50.**

# FORBES' PATENT DIE STOCKS



Front View.




Back View.

Hand Machine.

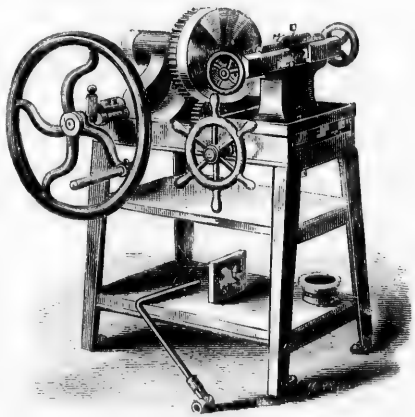
The above cuts illustrate the front and back views of the Nos. 30 and 34 Forbes' Patent Die Stocks. The Dies are set by turning the face plate to the proper graduation, and any variation in the fittings may be allowed for, and the pipe cut either over or under standard size.

No. **30**—Hand Machine; Threads $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$ and 2 inch pipe, both Right and Left. Weight, 80 lbs. Price, with Opening and Adjustable Dies, complete..... $95.00

No. **34**—Hand Machine; Threads 1, $1\frac{1}{4}$, $1\frac{1}{2}$, 2, $2\frac{1}{2}$ and 3 inch pipe, Right Hand, and 1, $1\frac{1}{4}$, $1\frac{1}{2}$ and 2 inch pipe, Left Hand. Weight, 115 lbs. Price, with Opening and Adjustable Dies, complete..... 150.00

# SAUNDERS' PIPE-CUTTING AND THREADING MACHINE

FOR PIPE.



No. **1**

Hand Machine.

Cutting and threading pipe from $\frac{1}{4}$ inch to 2 inches in diameter, with universal chuck, fly wheel and solid dies, right hand, also a set of sockets for making nipples $\frac{1}{4}$ to 2 inches, complete..... $216.00

---

Power and Hand Machine.

Cutting and threading pipe from $\frac{1}{4}$ inch to 2 inches in diameter, with universal chuck, cone pulleys, countershaft and solid dies, right hand, also a set of sockets for making nipples $\frac{1}{4}$ to 2 inches, complete. 279.00

Speed of Countershaft, 150 revolutions per minute.
Diameter of Pulleys, 11 inches, two loose, each 7 inch face, one fast $3\frac{1}{2}$ inch face.
Weight of Hand Machine, 550 lbs.
Weight of Power Machine, 700 lbs.

# THE WILEY & RUSSELL MFG. CO'S

## LIGHTNING SCREW PLATES

### FOR PIPE

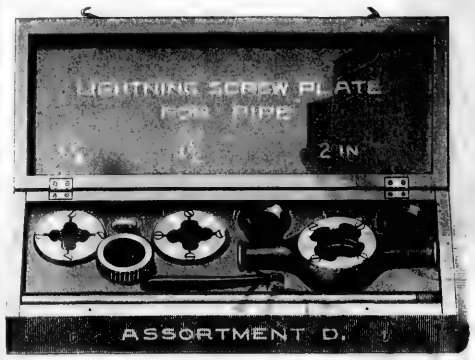



No. **250**—Set **C**, consisting of Stock 35 inches long and **5** sizes of Dies (right or left), and Guides for ¼, ⅜, ½, ¾ and 1 inch pipe Complete, as above, in substantial case...$18.00

⅛ inch supplied with this set, extra ..... 2.65

**Parts separately**

| | | |
|---|---|---|
| Stock 35 inches long | each | 5.25 |
| Dies | " | 2.25 |
| Guides | " | 0.38 |




No. **251**—Set **D**, consisting of Stock 53 inches long with a Leader Screw and 3 sizes of Dies (right or left) and Guides for 1¼, 1½ and 2 inch pipe. Complete, as above, in substantial case .....$30.00

Size 1 inch, if ordered with this set (including bushing and guide), extra ..... 4.50

**Parts Separately**

| | | |
|---|---|---|
| Stock 53 inches long | each | 10.50 |
| Dies | " | 6.00 |
| Guides | " | 0.75 |

No. **252**—Sets **C** and **D** combined with Dies and Guides, cutting ¼ to 2 inch pipe. Complete, in case ..... 48.00




**Full Mounted.**

No. **260**—Set of **5** sizes, ¼ to 1 inch. **A** Stock to each Die, for ¼, ⅜, ½, ¾, 1 inch pipe. 5 Stocks and 5 Dies complete, without case..$18.00

No. **261**—Same as **260**, but with case ..... 21.75

No. **262**—Set of **6** sizes, ¼ to 1 inch. **A** Stock to each Die, ¼, ⅜, ½, ¾, 1 inch. 6 Stocks and 6 Dies, complete, without case ..... 20.65

No. **263**—Same as **262**, but with case ..... 24.38




No. **253**—Set **E**, consisting of Stock with Leader Screw, and **2** sizes of Dies (right or left), Collets, Guide and Wrench. Sizes 2½ and 3 inches. Complete as above (no case)..... $60.00

Outside diameter of Collets, 7½ inches.

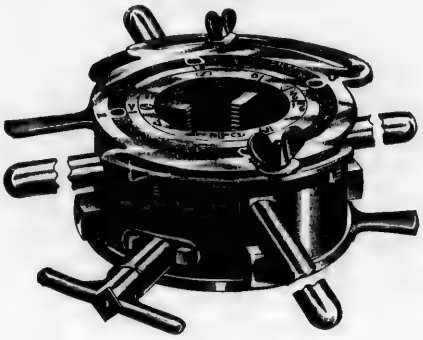
**Parts Separately**

| | | |
|---|---|---|
| Stock | each | 30.00 |
| Dies | " | 11.25 |
| Collets | " | 3.75 |
| Guide | " | 1.50 |
| Wrench | | 0.38 |

**These Dies are always ready for use, like solid Dies. Adjustable for irregular sizes of fittings and for wear.**

# JARECKI PATENT SCREW PLATE AND PIPE CUTTER

No. 567



The Nos. **1, 2, 3** and **3½** have Two Handles.
Nos. **4A** and **4B** have Four Handles.
Nos. **5** and **5A** have Five Handles.



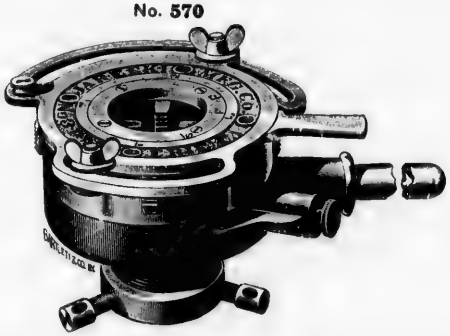
Has Adjustable Self-Centering Dies and Guides. The Dies and Pipe-Cutting Knife are easily removed and sharpened by grinding.

| | | | | | |
|---|---|---|---|---|---|
| No. **1**—Threads and cuts | ¼, ⅜, ½ and ¾ | inch Pipe | | price | $14.00 |
| " **2** " " | ¼, ⅜, 1 and 1¼ | " | | " | 16.00 |
| " **3** " " | 1, 1¼, 1½ and 2 | " | | " | 20.00 |
| " **3½** " " | ¼, ⅜, 1, 1¼, 1½ and 2 | " | | " | 22.50 |
| " **4A** " " | 1½, 2, 2½ and 3 | " | | " | 35.00 |
| " **4B** " " | 2½, 3, 3½ and 4 | " | | " | 50.00 |
| " **5** " " | 4½, 5 and 6 | " | | " | 75.00 |
| " **5A** " " | 6, 7 and 8 | " | | " | 125.00 |

| Nos. | **1** | **2** | **3** | **3½** (2 sets) | **4A** | **4B** | **5** | **5A** |
|---|---|---|---|---|---|---|---|---|
| **Dies**, per set, right or left hand | $2.00 | 2.00 | 2.00 | 4.00 | 3.00 | 3.00 | 6.00 | 6.00 |
| **Knives** | $0.40 | 0.40 | 0.40 | 0.40 | 0.50 | 0.50 | 0.60 | 0.60 |

## JARECKI RATCHET SCREW PLATE
### WITH LEADER SCREW

No. 570



For Threading Pipe in corners and ditches.

In ordering this style be careful to state **Ratchet Plate**, otherwise you might receive the ordinary kind.

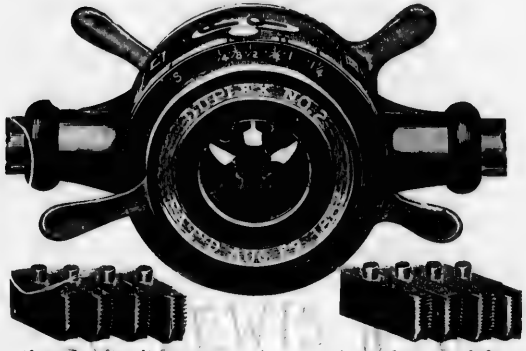


| | | | | | |
|---|---|---|---|---|---|
| No. **3**—Ratchet Screw Plate threads and cuts | 1, 1¼, 1½ and 2 | inch Pipe | | price | $20.00 |
| " **4B** " " " " " " | 2½, 3, 3½ and 4 | " | | " | 60.00 |
| " **5** " " " " " " | 4½, 5 and 6 | " | | " | 90.00 |

**Extra Dies**, per set..... No. **3**—$2.00 .... No. **4B**—$3.00 .... No. **5**—$6.00

# DUPLEX DIE STOCK

FOR PIPE



No turning back over the threads after it is once cut, is a prominent feature of the "Duplex."

All mechanics agree that the turning back against the cutting edge injures the Dies much more than the actual cutting. When the "Duplex" Dies become dull by cutting, they can readily be renewed by sharpening on a grindstone, thus making the life of these Dies longer, at least by four-fold, than any other made, and at the same time avoiding the common occurrence of stripping or weakening the thread, and rendering the work worthless.

The Cut-off is an adjustable attachment for cutting pipe, doing away with a pipe cutter, especially on large sizes, saving this extra tool.

| | | WITHOUT CUT OFF | WITH CUT OFF |
|---|---|---|---|
| No. **1** | threading $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$ inch pipe | $13.00 | $16.00 |
| " **2** | " $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, 1$\frac{1}{4}$ " | 17.00 | 20.00 |
| " **3** | " 1, 1$\frac{1}{4}$, 1$\frac{1}{2}$, 2 " | 22.00 | 25.00 |
| " **3½** | " $\frac{3}{4}$, 1, 1$\frac{1}{4}$, 1$\frac{1}{2}$, 2 " | 25.00 | 28.00 |
| " **4** | " 1$\frac{1}{2}$, 2, 2$\frac{1}{2}$, 3 " | 40.00 | 45.00 |
| " **5** | " 2$\frac{1}{2}$, 3, 3$\frac{1}{2}$, 4 " | 55.00 | 60.00 |

**Prices of Extra Dies**

| | |
|---|---|
| No. **1** Per Single Set (4 pieces), right or left hand | $2.40 |
| " **2** " " " " " " " | 2.80 |
| " **3** " " " " " " " | 3.20 |
| " **3½** " " " " " " " | 3.20 |
| " **4** " " " " " " " | 5.60 |
| " **5** " " " " " " " | 6.40 |
| Extra Cut-off Knives, 1, 2, 3 and 3½ | each 0.80 |
| " " " 4 " 5 | " 1.20 |

## COMBINATION PIPE STOCK

With Loose Dies




**Sizes and Prices**

| | |
|---|---|
| No. **00** cuts $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$ and $\frac{1}{2}$ inch | each 8.00 |
| " **0** " $\frac{1}{2}$, $\frac{3}{4}$ and 1 inch | " 9.00 |
| " **00** Extra Dies, right or left, 1$\frac{3}{8}$ inches square by $\frac{1}{2}$ inch | " 1.00 |
| " **0** " " " 2$\frac{1}{4}$ " " " $\frac{3}{4}$ " | " 1 50 |

## RATCHET STOCKS

With Shield Covering Ratchet Wheel.



**Price Without Dies**

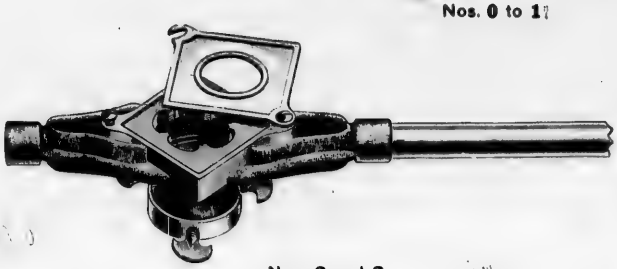
| | |
|---|---|
| No. **1**—Length 20 inch for Dies 2$\frac{1}{2}$ × 2$\frac{1}{2}$ × $\frac{3}{4}$ | each $ 9.00 |
| " **2**— " 36 " " 4 × 4 × $\frac{7}{8}$ | " 13.00 |

These Ratchets will work either right or left hand.

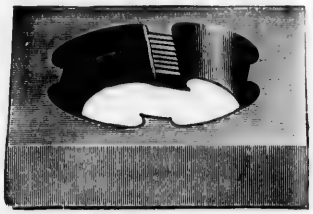
# SOLID DIE PLATES FOR PIPE



Nos. 0 to 1



Nos. 2 and 3



SOLID PIPE DIE

| Numbers | 0 | 1 | 1½ | 1¾ | 2 | 3 |
|---|---|---|---|---|---|---|
| Dies furnished with each Plate | ⅛ to ½ | ¼ to 1 | ¾, 1 & 1¼ | 1, 1¼ & 1½ | 1¼, 1½ & 2 | 2½ & 3 |
| Dimensions of Dies ..... inch. | 2×⅜ | 2½×¾ | 3×¾ | 3×¾ | 4×⅞ | 5×1¼ |
| Die Plates with R. H. Dies complete | $9.50 | 15.00 | 13.50 | 13.50 | 20.00 | 43.00 |
| Die Plates without Dies | $3.50 | 5.00 | 6.00 | 6.00 | 9.50 | 25.00 |
| Extra Dies, Right or Left Hand | $1.50 | 2.00 | 2 50 | 2.50 | 3.50 | 9 00 |
| Extra Bushings ..... each | $0.25 | 0.35 | 0.45 | 0.45 | 0.60 | 1 00 |
| Die Frames ..... " | .... | 0.30 | 0.40 | 0.40 | 0.50 | 0.60 |

Nos. 2 and 3 have Leader Screws.

## ARMSTRONG'S ADJUSTABLE STOCK AND DIES

### FOR THREADING IRON AND BRASS PIPE AND BOLTS

No. 1 Stock, 4 Right Hand Pipe Dies, cutting ¼, ⅜, ½ and ¾ inch Pipe, complete in case ..... $ 9.00

No. 2 Stock, 5 Right Hand Pipe Dies, cutting ¼, ⅜, ½, ¾ and 1 inch Pipe, complete in case ..... ..... 12.00

No. 2 Stock, 7 Bolt Dies, cutting ¼, ⅜, ½, ⅝, ¾, 1, 1⅛ and 1¼ Bolts, complete in case ..... 20.00

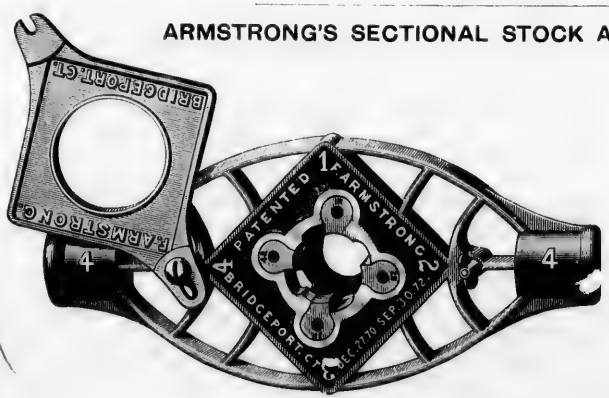
No. 2 Stock, 5 Brass Pipe Dies, cutting ⅜, ½, ⅝, ¾, 1 and 1¼ Pipe, complete in case ..... 15.00




### Prices of Separate Parts

| | | | |
|---|---|---|---|
| No. 1 Stock, with Screws, Handle and Wrench, each | $3.25 | No. 2 Bolt Dies, Right or Left Hand, ¼ to 1, each | $2.00 |
| " 2 " " " " " " " " | 4.00 | " 2 " " " " " 1⅛ and 1¼ " | 2.25 |
| " 1 Pipe Dies, Right or Left Hand ..... " | 1.25 | " 2 Brass Pipe Dies, ⅜ to 1¼ ..... ..... " | 2.00 |
| " 2 " " " " " " ..... " | 1.50 | " 2 Bushings ..... ..... " | 0.25 |

## ARMSTRONG'S SECTIONAL STOCK AND DIES FOR PIPE







| | EACH |
|---|---|
| No. 4 Stock, 3 Dies, 1¼, 1½ and 2 in. ... | $18.00 |
| " 4 " 4 " 1, 1¼, 1½ and 2 in .. | 21.00 |
| " 4 Blocks, with Cutter, right or left | 3.00 |
| " 4 Bushings ..... | 0.50 |
| " 4 Cutters, right or left .... ..... | 0.50 |

# PIPE CUTTERS

## IMPROVED THREE-WHEEL PIPE CUTTER

**No. 27**



| Nos. | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| Cuts Pipe | ⅛ to 1¼ | ⅛ to 2 | 1 to 3½ | 1 to 4 inch |
| Price ..... each | $4.50 | 6.00 | 10.00 | 15.00 |
| Extra Cutters ..... " | $0.25 | 0.30 | 0.40 | 0.50 |

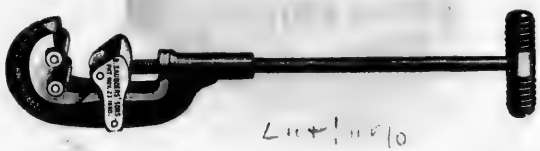
## IMPROVED ROLLER PIPE CUTTER

**No. 29**



| Nos. | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| Cuts Pipe | ⅛ to 1¼ | ⅛ to 2 | 1¼ to 3 | 2 to 4 inch. |
| Price ..... each | $4.50 | 6.75 | 16.00 | 20.00 |
| Extra Cutters ..... " | $0.25 | 0.30 | 0.40 | 0.50 |

## SAUNDERS' ROLLER PIPE CUTTER



| Nos. | 1 | 2 | 3 |
|---|---|---|---|
| Cuts Pipe | ⅛ to 1 | 1 to 2 | 2 to 3 inch. |
| Price ..... each | $3.00 | 4.50 | 14.00 |
| Extra Cutters ..... " | $0.24 | 0.32 | 0.60 |

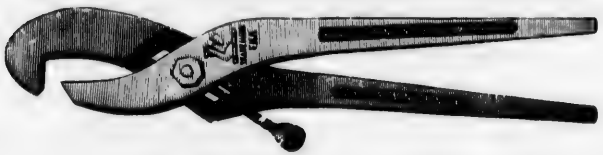
## STANWOOD'S PIPE CUTTER



| Nos. | 1 | 2 | 3 |
|---|---|---|---|
| Cuts Pipe | ⅛ to 1 | 1 to 2 | 2 to 3 inch |
| Price ..... each | $2.25 | 3.40 | 10.50 |
| Extra Cutters ..... " | $0.20 | 0.30 | 0.40 |

# PIPE TONGS

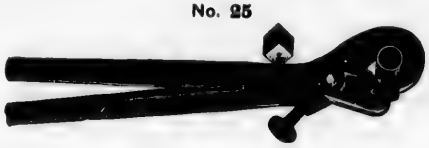
## BROWN'S PATENT ADJUSTABLE PIPE TONGS



| Nos. | 1 | 1½ | 2 | 3 | 4 |
|---|---|---|---|---|---|
| Takes Pipe | ⅛ to ¾ | ¾ to 1 | ½ to 1¼ | 1 to 2 | 1½ to 3 inch. |
| Each | $0.80 | 0.90 | 1.20 | 1.75 | 4.00 |

## PATENT ADJUSTABLE PIPE TONGS

No. 25



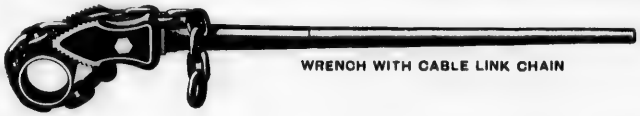
| Nos. | 1 | 2 | 3 |
|---|---|---|---|
| Takes Pipe | ⅛ to ¾ | ¾ to 1½ | ½ to 2½ inch. |
| Each | $3.00 | 4.00 | 5.30 |

## VULCAN CHAIN PIPE WRENCHES

Drop Forge from Bar Steel. All Parts are Interchangeable.



WRENCH WITH FLAT LINK CHAIN



WRENCH WITH CABLE LINK CHAIN

| Size, Nos. | 10 | 11 | 12 | 13 | 13½ | 14 | 15 |
|---|---|---|---|---|---|---|---|
| Capacity, Size of Pipe | ⅛ to ¾ | ⅛ to 1½ | ¼ to 2½ | ¾ to 4 | 1 to 6 | 1½ to 8 | 2 to 12 in |
| Length | 13¾ | 20 | 27 | 37 | 44½ | 50½ | 64½ " |
| Weight, pounds | 1¾ | 4¾ | 8¼ | 16 | 21 | 29 | 49 |
| Price, with Flat Link, each | $2.85 | 3.95 | 5.65 | 7.90 | 10.15 | 12.40 | 20.25 |
| Price, with Cable Link, " | $2.55 | 3.65 | 5.10 | 7.00 | 8.75 | 10.70 | 18.00 |
| Extra Flat Link Chains, " | $ 0.85 | 1.15 | 1.70 | 2.80 | 3.65 | 4.50 | 6.75 |
| " Cable Link Chains, " | $ 0.50 | 0.85 | 1.15 | 2.00 | 2.25 | 2.85 | 4.50 |
| " Jaws, pair, " | $ 1.15 | 2.00 | 3.10 | 4.50 | 5.35 | 6.20 | 8.45 |

When ordering, state if Flat or Cable Link Chain is wanted.

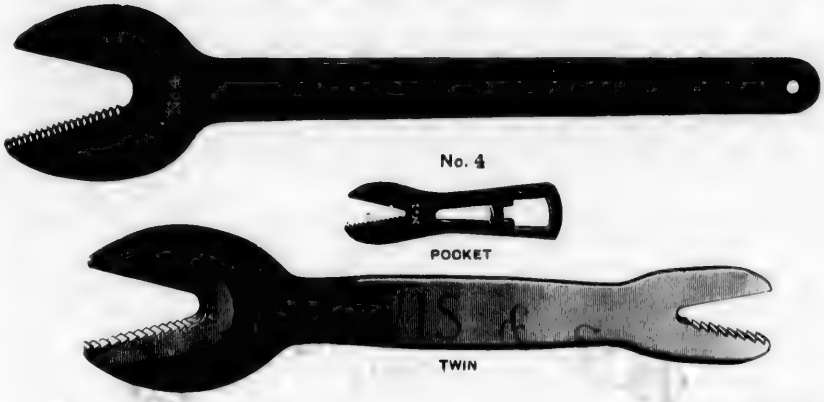
## TRIMO CHAIN PIPE WRENCHES



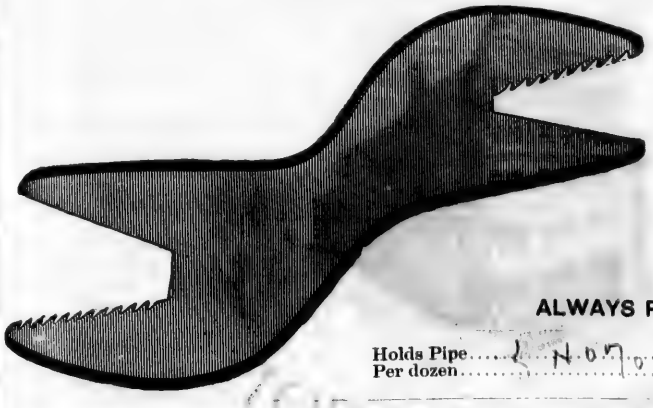
| Nos. | 2 | 3 | 4 | 5 |
|---|---|---|---|---|
| Each | $6.00 | 8.00 | 10.00 | 15.00 |
| Takes Pipe | ¾ to 3 | 1 to 4 | 2 to 6 | 2½ to 10 inch. |
| Length | 27 | 37 | 50 | 64 " |
| Extra Jaws, per pair | $1.75 | 2.25 | 2.75 | 3.50 |

# PIPE WRENCHES

## ALLIGATOR WRENCHES




| Size No. | 1 | 2 | 3 | 4 | 5 | Twin | Pocket | |
|---|---|---|---|---|---|---|---|---|
| Holds Pipe | ⅛ to ¾ | ⅜ to ¾ | ½ to 1¼ | 1¼ to 2 | 2 to 3 | ⅛ to ¾ | ⅛ to ¾ | ⅛ to ½ inch. |
| Length | 5½ | 10 | 16 | 22 | 27 | 10 | 4 | 5½ " |
| Each | $0.35 | 1.00 | 2.00 | 3.00 | 4.50 | 1.50 | 0.35 | 0.45 |

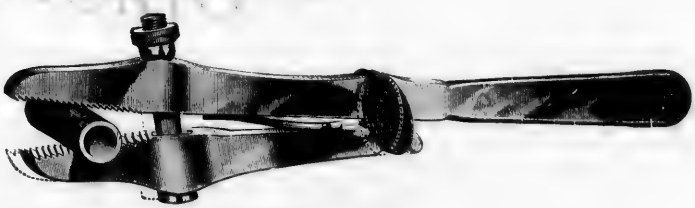


## ALWAYS READY WRENCH

| | No. 1 | No 2 |
|---|---|---|
| Holds Pipe | ⅛ to ¾ | ⅛ to 1¼ inch. |
| Per dozen | $5.75 | 7.75 |

## THE OURTIS WRENCH

| | | |
|---|---|---|
| Length | 9 | 15 inch. |
| Holds Pipe | ⅛ to ¾ | ⅛ to 1½ " |
| Each | $2.25 | 2.75 |



## THE EAGLE WRENCH



Made of Drop Forged Steel and Malleable Iron, with Wood Handles.

No. 1—16 inch takes Pipe ⅛ to 1 inch.....each $3.50
" 2—22 " " " ¾ to 2 inch..... " 6.50

# PIPE WRENCHES

## TRIMO PIPE WRENCHES




| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Length, Open | **6** | **8** | **10** | **14** | **18** | **24** | **36** | inch. |
| Holds Pipe | ⅛ to ⅜ | ⅛ to ½ | ⅛ to 1 | ⅛ to 1½ | ⅛ to 2 | ⅛ to 2½ | ½ to 3½ | " |
| Each | $2.00 | 2.00 | 2.25 | 3.00 | 4.00 | 6.00 | 12.00 | |
| Jaws, each | $0.75 | 0.75 | 0.85 | 1.15 | 1.50 | 2.25 | 4.50 | |

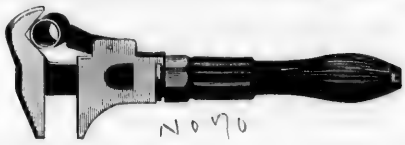
## STILLSON PIPE WRENCHES



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Length, Open | **6** | **8** | **10** | **14** | **18** | **24** | **36** | inch. |
| Holds Pipe | ⅛ to ⅜ | ⅛ to ½ | ⅛ to 1 | ⅛ to 1½ | ⅛ to 2 | ⅛ to 2½ | ½ to 3½ | " |
| Each | $2.00 | 2.00 | 2.25 | 3.00 | 4.00 | 6.00 | 12.00 | |
| Jaws | $0.75 | 0.75 | 0.85 | 1.15 | 1.50 | 2.25 | 4.50 | |

These Wrenches have wood handles from 6 to 14 inch.—18 to 36 inch are all steel.

## DONOHUE'S COMBINATION ENGINEERS' WRENCHES



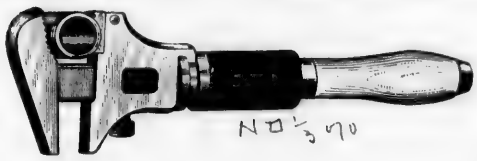
**Long Sleeve Nut**

| | | | | |
|---|---|---|---|---|
| Size | **10** | **12** | **15** | inch. |
| Holds Pipe | ½ to 1 | ½ to 1½ | ½ to 2 | " |
| Each | $2.40 | 2.70 | 3.80 | |

**Short Nut**

| | | | | |
|---|---|---|---|---|
| Size | **10** | **12** | **15** | inch. |
| Holds Pipe | ½ to 1 | ½ to 1½ | ½ to 2 | " |
| Each | $2.20 | 2.45 | 3.50 | |

## TRIMO COMBINATION ENGINEERS' WRENCHES



| | | | | |
|---|---|---|---|---|
| Nos. | **1** | **2** | **3** | |
| Holds Pipe | ⅛ to 1 | ⅛ to 1½ | ⅛ to 2 | inch. |
| Each | $2.40 | 2.70 | 3.85 | |

# WRENCHES

## BEMIS & CALL'S PIPE WRENCH No. 3



LONG SLEEVE NUT

| Size | 10 | 12 | 15 inch. |
|---|---|---|---|
| Holds Pipe | ⅛ to 1 | ⅛ to 1½ | ⅛ to 2 " |
| Price each | $2.40 | 2.95 | 3.35 |

| 36 inch. |
|---|
| ⅛ to 3½ " |
| 12.00 |
| 4.50 |

## BEMIS & CALL'S COMBINATION PIPE WRENCH



LONG SLEEVE NUT

| Size | 10 | 12 | 15 inch. |
|---|---|---|---|
| Holds Pipe | ⅛ to 1 | ⅛ to 1½ | ⅛ to 2 " |
| Price each | $2.40 | 2.70 | 3.80 |

| 36 inch. |
|---|
| ⅛ to 3½ " |
| 12.00 |
| 4.50 |

## WESTCOTT ADJUSTABLE WRENCH

No. 1—FOR BOLTS




| Size | 8 | 10 | 12 | 14 inch. |
|---|---|---|---|---|
| Opens | 1 | 1⅛ | 1½ | 2 " |
| Per dozen | $11.25 | 15.00 | 18.75 | 26.25 |

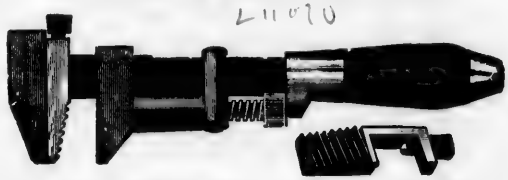
No. 2—FOR PIPE




| Size | 8 | 10 | 12 | 14 inch. |
|---|---|---|---|---|
| Holds pipe | ⅛ to ⅝ | ⅛ to 1 | ⅛ to 1¼ | ⅛ to 1½ " |
| Per dozen | $18.75 | 22.50 | 30.00 | 37.50 |

| 15 inch. |
|---|
| ⅛ to 2 " |
| 3.50 |

## ATWATER'S PIPE WRENCH JAW



Can be instantly attached to any ordinary Monkey Wrench.

| No. | 1 | 2 | 3 |
|---|---|---|---|
| Will fit Wrenches | 6 and 8 | 10 to 18 | 15 to 21 inch. |
| Each | 80.40 | 0.50 | 0.75 |

In Sets of one each, Nos. 1, 2 and 3 in a box ..... per set $1.65

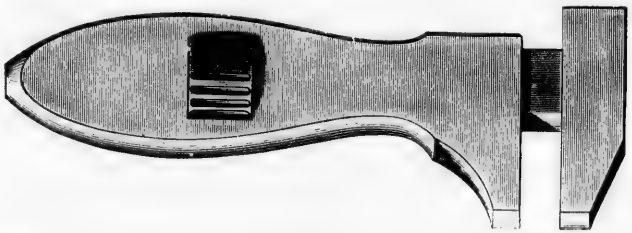
| 3 |
|---|
| ⅛ to 2 inch. |
| 3.85 |

# ADJUSTABLE POCKET WRENCHES

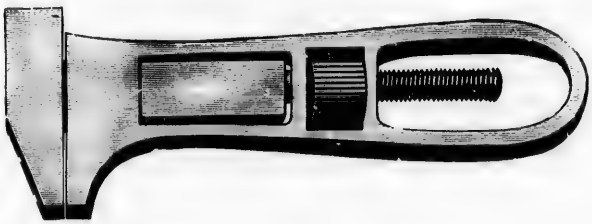



Drop Forged from Bar Steel. Finished in a thorough manner and case-hardened.

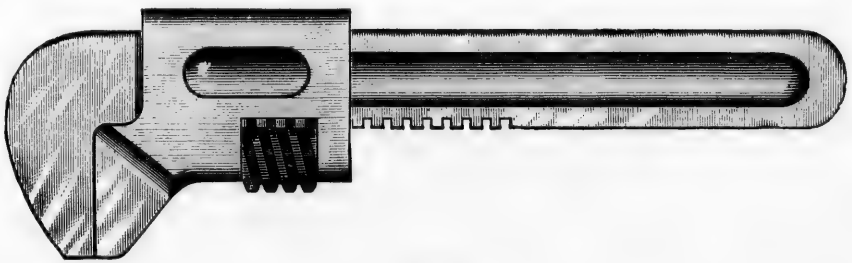
| | | | |
|---|---|---|---|
| No. 1—4 inch Wrench, Nickel-Plated | per dozen | $12.50 |
| " 2—4 " " Black Finish | " " | 11.25 |
| " 3—6 " " " " | " " | 18.00 |



No. 22—4 inch Nickel-Plated Iron Pocket Wrench ..... per dozen 2.00



No. 1—4 inch Tinned Iron Pocket Wrench ..... per dozen 1.00

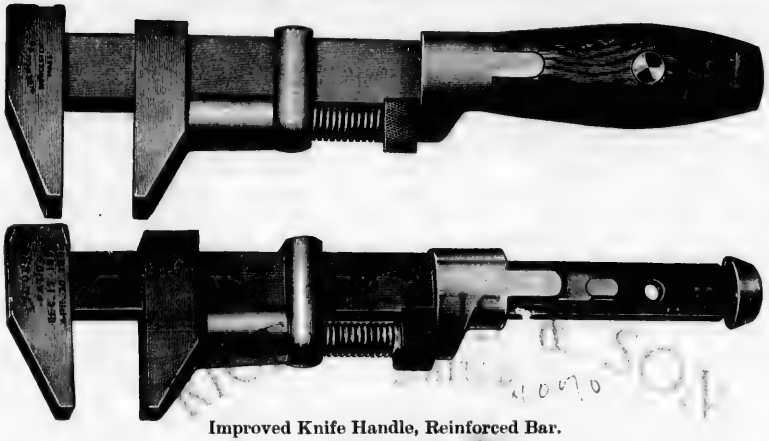


(Full Size)

No. 102—Nickel-Plated, Forged Steel Hardened Jaws ..... per dozen 4.00

# SCREW WRENCHES

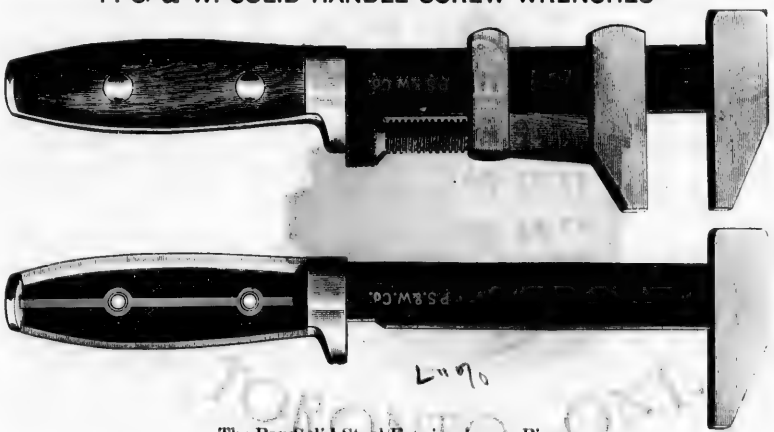
## COE'S GENUINE SCREW WRENCHES



Improved Knife Handle, Reinforced Bar.

| Length ..... | 6 | 8 | 10 | 12 | 15 | 18 | 21 inch. |
|---|---|---|---|---|---|---|---|
| Black ...per doz. | $9.00 | 10.00 | 12.00 | 14.00 | 24.00 | 30.00 | 36.00 |

## P. S. & W. SOLID HANDLE SCREW WRENCHES



The Bar Solid Steel Forging in one Piece.

| Size ..... | 6 | 8 | 10 | 12 | 15 | 18 | 21 inch. |
|---|---|---|---|---|---|---|---|
| Black ...per doz. | $9.00 | 10.00 | 12.00 | 14.00 | 24.00 | 30.00 | 36.00 |

## MACHINISTS' SCREW WRENCHES



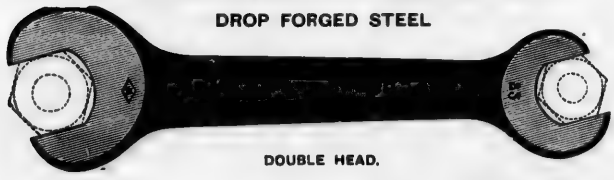
| Length ..... | 6 | 8 | 10 | 12 | 15 | 18 | 21 inch. |
|---|---|---|---|---|---|---|---|
| Black ...per doz. | $9.00 | 10.00 | 12.00 | 14.00 | 24.00 | 30.00 | 36.00 |

## AGRICULTURAL WRENCHES

| Length..... | 6 | 8 | 10 | 12 | 15 inch. |
|---|---|---|---|---|---|
| Black .....per doz. | $9.00 | 10.00 | 12.00 | 14.00 | 24.00 |

# ENGINEERS' WRENCHES

## DROP FORGED STEEL



DOUBLE HEAD.

| Number. | For Nuts. Inch. | Opening Unfinished. Inch. | Opening Finished. Inch. | Extreme Length. Inch. | Thickness of Heads. Inch. | Unfinished Each. | Finished, Each. |
|---|---|---|---|---|---|---|---|
| **21** | $\frac{1}{2}$ and $\frac{9}{16}$ | $\frac{1}{2}$ and $\frac{11}{16}$ | $\frac{5}{16}$ and $\frac{13}{32}$ | $3\frac{1}{2}$ | $\frac{13}{64}$ and $\frac{7}{32}$ | $0.12 | $0.24 |
| **25** | $\frac{1}{2}$ " $\frac{5}{16}$ | $\frac{7}{16}$ " $\frac{17}{32}$ | $\frac{3}{8}$ " $\frac{19}{32}$ | $4\frac{1}{8}$ | $\frac{1}{4}$ " $\frac{9}{32}$ | 0.18 | 0.36 |
| **30** | $\frac{9}{16}$ " $\frac{3}{4}$ | $\frac{9}{16}$ " $\frac{13}{16}$ | $\frac{11}{32}$ " $\frac{7}{8}$ | $7\frac{1}{2}$ | $\frac{5}{16}$ " $\frac{21}{64}$ | 0.28 | 0.56 |
| **37** | $\frac{5}{8}$ " $\frac{7}{8}$ | 1 " $1\frac{1}{16}$ | $1\frac{1}{16}$ " $1\frac{1}{2}$ | $11\frac{1}{2}$ | $\frac{11}{32}$ " $\frac{9}{16}$ | 0.53 | 1.06 |
| **39** | $\frac{3}{4}$ " $\frac{7}{8}$ | $1\frac{5}{16}$ " $1\frac{3}{8}$ | $1\frac{1}{4}$ " $1\frac{7}{16}$ | $13\frac{1}{2}$ | $\frac{7}{16}$ " $\frac{31}{64}$ | 0.65 | 1.30 |
| **43** | 1 " $1\frac{1}{8}$ | $1\frac{7}{16}$ " $1\frac{13}{16}$ | $1\frac{5}{8}$ " $1\frac{13}{16}$ | $17\frac{3}{8}$ | $\frac{3}{8}$ " $\frac{43}{64}$ | 1.08 | 2.16 |
| **48** | $1\frac{1}{4}$ " $1\frac{1}{2}$ | $1\frac{13}{16}$ " $2\frac{9}{16}$ | 2 " $2\frac{1}{8}$ | $23\frac{1}{4}$ | $\frac{13}{32}$ " $1\frac{1}{16}$ | 2.10 | 4.20 |

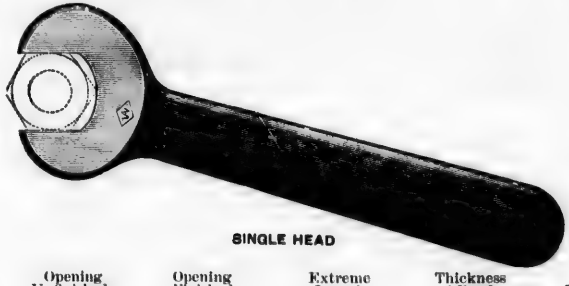


## DOUBLE HEAD S WRENCHES

### DROP FORGED STEEL

These Wrenches will admit of being milled larger than stock sizes as shown on list. Special finished sizes furnished only to order.

| Number. | For Set Screws. Inch. | Square Head Cap Screws. Inch. | Hex. Head Cap Screws. Inch. | Opening Unfinished. Inch. | Opening Finished. Inch. | Extreme Length. Inch. | Thickness of Head. Inch | Unfinished. Each. | Semi-finished. Each. | Finished. Each. |
|---|---|---|---|---|---|---|---|---|---|---|
| **235** | $\frac{1}{4}$ and $\frac{5}{16}$ | | | $\frac{7}{32}$ and $\frac{9}{32}$ | $\frac{1}{4}$ and $\frac{5}{16}$ | $3\frac{3}{8}$ | $\frac{1}{4}$ and $\frac{9}{32}$ | $0.10 | $0.15 | $0.20 |
| **242** | $\frac{3}{8}$ " $\frac{7}{16}$ | $\frac{1}{4}$ and $\frac{5}{16}$ | $\frac{5}{16}$ and $\frac{1}{4}$ | $\frac{11}{32}$ " $\frac{13}{32}$ | $\frac{3}{8}$ " $\frac{7}{16}$ | $4\frac{1}{2}$ | $\frac{9}{32}$ " $\frac{5}{16}$ | 0.15 | 0.22 | 0.30 |
| **251** | $\frac{1}{2}$ " $\frac{9}{16}$ | $\frac{5}{16}$ " $\frac{7}{16}$ | $\frac{5}{16}$ " $\frac{3}{8}$ | $\frac{15}{32}$ " $\frac{17}{32}$ | $\frac{1}{2}$ " $\frac{9}{16}$ | $6\frac{1}{2}$ | $\frac{5}{16}$ " $\frac{13}{32}$ | 0.21 | 0.31 | 0.42 |
| **263** | $\frac{5}{8}$ " $\frac{3}{4}$ | $\frac{1}{2}$ " $\frac{5}{8}$ | $\frac{7}{16}$ " $\frac{1}{2}$ | $\frac{19}{32}$ " $\frac{21}{32}$ | $\frac{5}{8}$ " $\frac{3}{4}$ | 8 | $\frac{1}{2}$ " $\frac{17}{32}$ | 0.28 | 0.42 | 0.56 |
| **277** | $\frac{7}{8}$ " 1 | $\frac{5}{8}$ " $\frac{7}{8}$ | $\frac{1}{2}$ " $\frac{5}{8}$ | $\frac{23}{32}$ " $1\frac{1}{16}$ | $\frac{7}{8}$ " 1 | 10 | $\frac{17}{32}$ " $\frac{9}{16}$ | 0.37 | 0.55 | 0.74 |



SINGLE HEAD

| Number. | For Nuts. Inch. | Opening Unfinished. Inch. | Opening Finished. Inch. | Extreme Length. Inch. | Thickness of Heads. Inch. | Unfinished. Each. | Finished. Each. |
|---|---|---|---|---|---|---|---|
| **00** | $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{5}{16}$ | $2\frac{1}{2}$ | $\frac{5}{16}$ | $0.08 | $0.16 |
| **0** | $\frac{5}{16}$ | $\frac{11}{32}$ | $\frac{3}{8}$ | $2\frac{7}{8}$ | $\frac{7}{32}$ | 0.09 | 0.18 |
| **1** | $\frac{1}{2}$ | $\frac{7}{16}$ | $\frac{1}{2}$ | $3\frac{3}{4}$ | $\frac{1}{4}$ | 0.10 | 0.20 |
| **2** | $\frac{5}{16}$ | $\frac{1}{2}$ | $\frac{5}{8}$ | $4\frac{3}{4}$ | $\frac{5}{16}$ | 0.12 | 0.24 |
| **3** | $\frac{3}{4}$ | $\frac{5}{8}$ | $\frac{11}{16}$ | $5\frac{3}{4}$ | $\frac{5}{16}$ | 0.14 | 0.28 |
| **4** | $\frac{7}{16}$ | $\frac{23}{32}$ | $\frac{13}{16}$ | $6\frac{1}{2}$ | $\frac{11}{32}$ | 0.17 | 0.34 |
| **5** | $\frac{1}{2}$ | $\frac{13}{16}$ | $\frac{7}{8}$ | $7\frac{1}{2}$ | $\frac{23}{64}$ | 0.20 | 0.40 |
| **7** | $\frac{5}{8}$ | 1 | $1\frac{1}{16}$ | $9\frac{1}{2}$ | $\frac{31}{64}$ | 0.32 | 0.64 |
| **8** | $\frac{9}{16}$ | $1\frac{1}{16}$ | $1\frac{1}{4}$ | $11\frac{1}{4}$ | $\frac{5}{16}$ | 0.40 | 0.80 |
| **9** | $\frac{3}{4}$ | $1\frac{1}{8}$ | $1\frac{1}{16}$ | 13 | $\frac{31}{64}$ | 0.50 | 1.00 |
| **10** | 1 | $1\frac{7}{16}$ | $1\frac{1}{8}$ | $14\frac{7}{8}$ | $\frac{3}{8}$ | 0.65 | 1.30 |
| **11** | $1\frac{1}{8}$ | $1\frac{15}{16}$ | $1\frac{1}{4}$ | $16\frac{1}{8}$ | $\frac{23}{64}$ | 0.85 | 1.70 |
| **12** | $1\frac{1}{4}$ | $1\frac{19}{16}$ | 2 | $18\frac{3}{8}$ | $\frac{13}{32}$ | 1.10 | 2.20 |
| **14** | $1\frac{1}{2}$ | $2\frac{5}{16}$ | $2\frac{1}{2}$ | $22\frac{1}{4}$ | $1\frac{1}{16}$ | 1.75 | 3.50 |

When ordering, please state whether Unfinished or Finished Wrenches are wanted.

## BAXTER "S" WRENCHES



| Length | 6 | 8 | 10 inch. |
|---|---|---|---|
| Per dozen | $6.00 | 9.00 | 12.00 |

## IMPROVED COMBINATION PLIERS



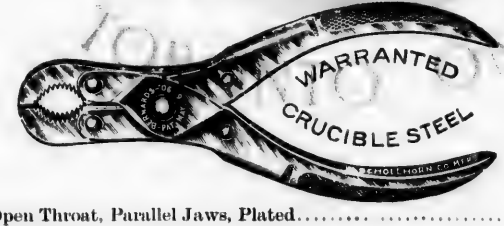

Gas Pliers, Wire Cutters, Wrench and Screw Driver combined.

No. **22**—B. & S. 6 inch Combination Pliers, Drop Forged, Black ..... per dozen $20.25
" **23**— " 6 " " " " Plated ..... " 22.50
" **2041**—Bokers' 6 " " " " " ..... " 18.40



No. **24**—B. & S. 10 inch Combination Pliers, Drop Forged, Black ..... per dozen $27.00
" **25**— " 10 " " " " Plated ..... " 31.50

## GAS BURNER PLIERS

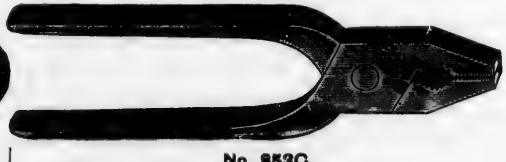



No. **26**—5 inch Gas Pliers, Open Throat, Parallel Jaws, Plated ..... per dozen $12.60
" **27**—7 " " " " " " ..... " 16.80



No. **1349**

No. **1349**—5 inch Bright ..... per dozen $5.60



No. **853C**

No. **853C**—5½ inch Bright ..... per dozen $4.15

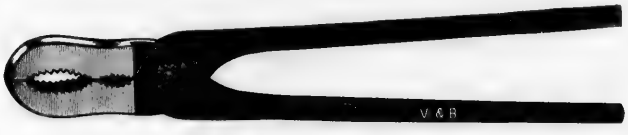
# GAS BURNER PLIERS



No. **161**

No. **161**—5 inch Polished, Solid Cast Steel, Oil Tempered ..... per dozen $4.70
" **161**—6 " " " " " ..... " 6.25

## GAS PLIERS

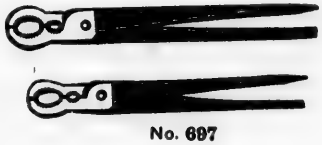



No. **162**

Solid Cast Steel, Polished, Oil Tempered.

| Size | 7 | 8 | 10 inch. |
|---|---|---|---|
| No. **162** ..... per dozen | $5.75 | 6.50 | 8.35 |

## WYNN'S GAS PLIERS



No. **697**

| Size | 6 | 8 | 10 | 12 inch. |
|---|---|---|---|---|
| No. **697** ..... per dozen | $5.95 | 8.25 | 12.00 | 15.50 |

## MINERS' FUSE CAPPING PLIERS

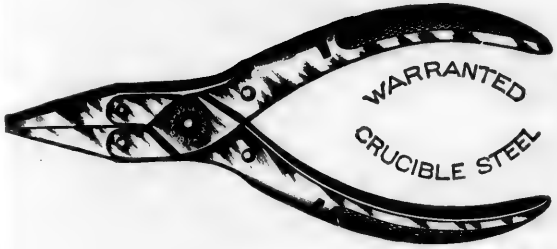


For cutting or sizing the fuse, crimping the cap and making the hole in cartridge for the cap.

No. **5**—Nickel-Plated, weight 2 ounces ..... per dozen $11.25

# BERNARD PLIERS

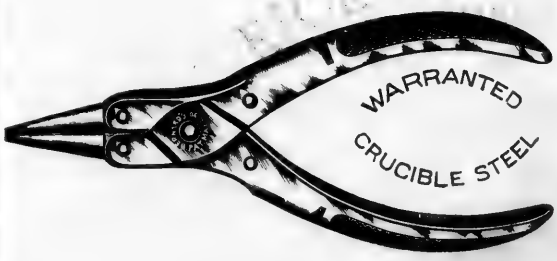
## OPEN THROAT, PARALLEL JAWS




### FLAT NOSE

| Size | 3½ | 4 | 4½ | 5 inch. |
|---|---|---|---|---|
| Jewellers', Plated | $10.50 | 11.90 | 13.30 | 14.70 doz. |

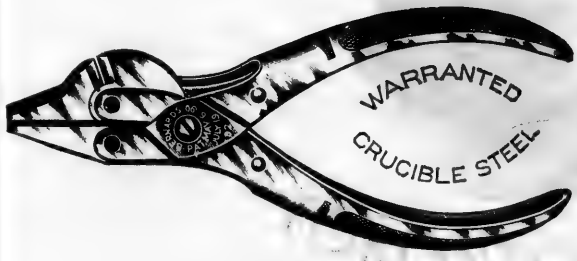
| Size | 4½ | 5½ | 6½ | 7½ inch. |
|---|---|---|---|---|
| Extra Heavy, Plated | $9.80 | 12.60 | 15.40 | 21.00 doz. |




### ROUND NOSE

| Size | 4 | 4½ inch. |
|---|---|---|
| Jewellers', Plated | $11.90 | 13.30 doz. |

| Size | 4½ | 5½ | 6½ inch. |
|---|---|---|---|
| Extra Heavy, Plated | $9.80 | 12.60 | 15.40 doz. |




### CUTTING

| Size | 5 inch. |
|---|---|
| Jewellers', Plated | $21.00 doz. |

| Size | 4½ | 5½ | 6½ | 7½ inch. |
|---|---|---|---|---|
| Extra Heavy, Plated | $17.50 | 20.30 | 24.50 | 33.60 doz. |

## FLAT NOSE, HOLLOW JAW PARALLEL PLIERS




PARAGON




LODI

| Size | 4 | 4½ | 5 | 5½ | 6 inch. |
|---|---|---|---|---|---|
| No. 50—Paragon, Plated | $3.10 | 3.55 | 4.05 | 4.60 | 5.10 |
| " 60—Lodi, Bright | 1.35 | 1.60 | 1.80 | 2.05 | 2.25 |

# LINEMEN'S CUTTING PLIERS




With Rubber Handles, Open Throat Parallel Jaws.

No. **40**—8 inch Electric Cutting Pliers, with Rubber Handles.....per doz, $42.00
" **39**—8 inch Linemen's " without " " ..... " 36.00

## SPLICING CLAMPS

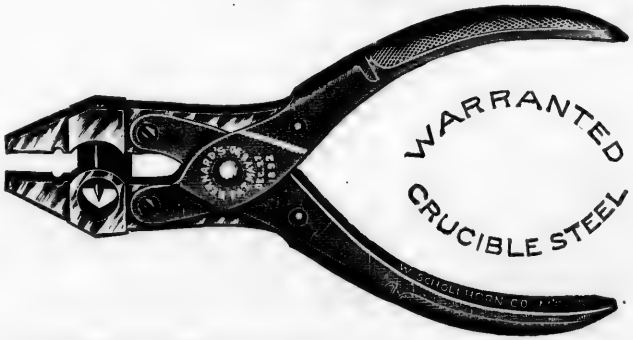
### FOR ELECTRICIANS




No. **1**—Black Japanned, for 4, 6, 8 or 9 gauge Wire.....per doz, $22.50
" **2**—Polished Head, " 4, 6, 8 " 9 " " ..... " 28.00
" **3**—Full Polished, " 4, 6, 8 " 9 " " ..... " 30.00

## SEWING MACHINE PLIERS

### WITH BELT PUNCH

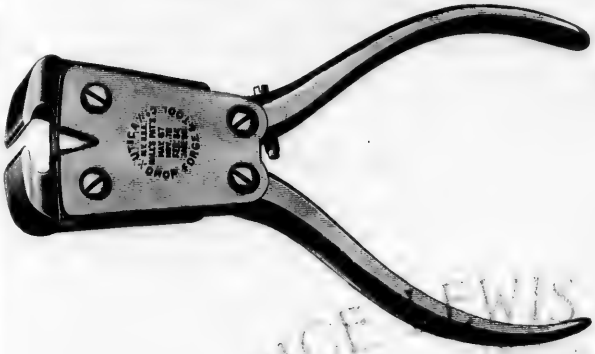



For cutting and piercing round leather belting up to ¼ inch diameter.

No. **41**—5½ inch.....per doz. $16.80

# CUTTING NIPPERS

## HALL'S PATENT COMPOUND LEVER CUTTING NIPPERS



ALL PARTS INTERCHANGEABLE

**Front Cutting Nippers**

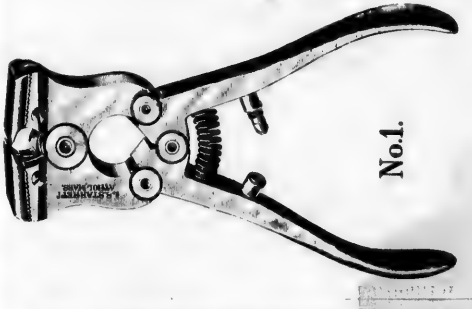
| | | | | |
|---|---|---|---|---|
| No. **1**— | 4 in. | cuts $\frac{1}{16}$ | in. wire, | per doz. $12.00 |
| " **2**— | 5 " | " $\frac{3}{32}$ | " " | " 13.50 |
| " **4**— | 7 " | " $\frac{1}{8}$ | " " | " 21.00 |
| " **6**— | 8 " | " $\frac{5}{16}$ | " " | " 24.00 |
| " **9**—11 | " | " $\frac{5}{16}$ | " " | " 27.00 |

**EXTRA PARTS**

| | Jaws. Per Single Dozen. | Handles. Per Single Dozen. |
|---|---|---|
| No. **1**..... | $3.00 | $3.00 |
| " **2**..... | 3.00 | 3.00 |
| " **4**..... | 4.00 | 4.00 |
| " **6**..... | 5.00 | 5.00 |
| " **9**..... | 5.00 | 6.00 |

Extra Screws, Nos. 1 to 4.. ...per doz. $1.20
Springs, all sizes ..... " 0.85

## STARRETT'S CUTTING NIPPERS



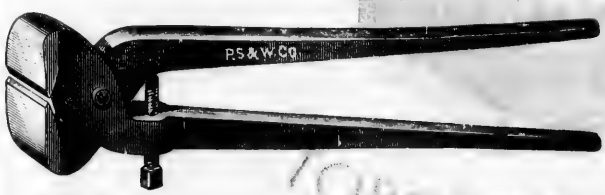



**B**—For Bicycle use.
**M**—For Music Wire.
**C**—For common use.

No. **1**—5½ in. Adjustable Jaw Cutting Nippers, per pair $3.40
" **2**—7 " " " " " " " 4.25

Extra Jaws, either **B**, **M**, or **C**, which should be designated.....per pair 0.85

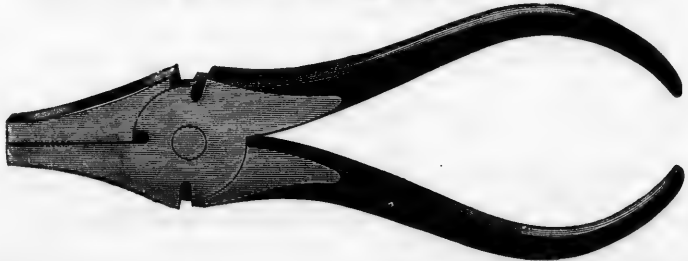
Unless otherwise ordered, Cutting Nippers with **C** Jaws will be sent.




## IMPROVED CUTTING NIPPERS

No. **0**—14 in. long, 2 in. Jaws, very strong .....each $4.25
" **1**—12 in. long ..... " 2.60
" **3**—10 in. long ..... " 1.75

## BUTTON'S WIRE CUTTER AND PLIERS, COMBINED



| Size | 6 | 8 | 9 | 10 | 12 | inch. |
|---|---|---|---|---|---|---|
| American.....per dozen | .... | $9.20 | .... | 11.60 | .... | |
| No. **1318B**—Bokers'..... " | $3.60 | 4.20 | 4.50 | 5.20 | 7.40 | |
| " **4042** —German ..... " | 3.90 | 4.75 | 5.15 | 5.85 | .... | |

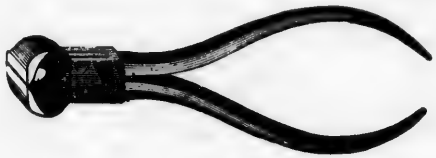
# PLIERS

## SIDE CUTTING PLIERS




| Length | | | 4½ | 5 | 5½ | 6 | 6½ | 7 | 8 | 9 in |
|---|---|---|---|---|---|---|---|---|---|---|
| No. **153**—Stubs' Side Cutting | per doz. | | $11.20 | 11.20 | 11.20 | 12.35 | 15.65 | 21.15 | 26.85 | 33.60 |
| " **1313A**—Boker's " | " | | .... | 5.50 | .... | 7.00 | 7.75 | 8.75 | .... | .... |
| " **1313AY**— " " | " | | .... | 9.00 | 9.50 | 10.30 | 11.25 | 12.00 | .... | .... |

## FACE CUTTING PLIERS



No. **154**



No. **285 A**

| Length | | 5 | 5½ | 6 | 7 | 8 | 9 | 10 in. |
|---|---|---|---|---|---|---|---|---|
| No. **154**—Stubs' Face Cutting | per doz. | $11.75 | 12.90 | 15.70 | .... | .... | .... | .... |
| " **1306A**—Boker's " | " | 5.75 | 6.35 | 7.45 | .... | .... | .... | .... |
| " **477**—Wynn's " | " | 8.80 | 10.25 | 12.25 | .... | .... | .... | .... |
| " **285A**—Stubs' heavy " | " | .... | .... | 10.10 | 11.80 | 13.50 | 17.75 | 19.60 |



## ANGLE CUTTING PLIERS

| Length | 5 | 5½ | 6 in. |
|---|---|---|---|
| No. **149**—Stubs' Angle Cutting, per doz. | $11.75 | 12.90 | 15.70 |



## FLAT NOSE PLIERS

| Length | 3½ | 4 | 4½ | 5 | 5½ | 6 | 6½ | 7 in. |
|---|---|---|---|---|---|---|---|---|
| No. **161**—Stubs', per doz. | $6.15 | 6.15 | 6.15 | 6.75 | 7.85 | 10.10 | 13.45 | 15.70 |
| " **98**—Yeoman's " | .... | 2.50 | 2.50 | 2.50 | 2.80 | 3.20 | 3.80 | 4.50 |
| " **1337A**—Boker's " | .... | 0.85 | 1.00 | 1.10 | 1.20 | 1.30 | .... | .... |



## ROUND NOSE PLIERS

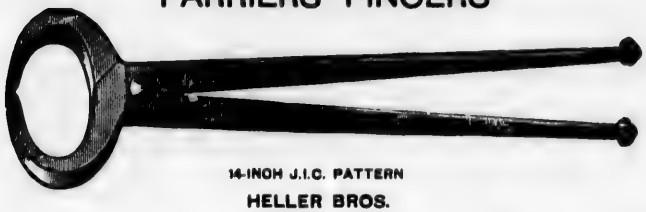
| Length | 3½&4 | 4½ | 5 | 5½ | 6 | 6½ | 7 | 8 in. |
|---|---|---|---|---|---|---|---|---|
| No. **162**—Stubs', per doz. | $6.15 | 6.15 | 6.75 | 7.85 | 10.10 | 13.45 | 15.70 | 22.50 |
| " **99**—Yeoman's " | 2.50 | 2.50 | 2.50 | 2.80 | 3.20 | 3.80 | 4.50 | .... |
| " **1336A**—Boker's " | 0.85 | 1.00 | 1.10 | 1.20 | 1.30 | .... | .... | .... |



## STOCKINGER'S PLIERS

| Length | 5½ | 5¾ in. |
|---|---|---|
| No. **156**—Stubs', per doz. | .... | $9.00 |
| " **1283**—Boker's " | $6.00 | .... |
| " **163**—Stubs' Pendulum Pliers " | 7.85 | .... |

## FARRIERS' PINCERS

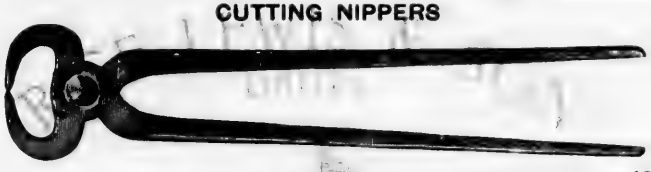


14-INCH J.I.C. PATTERN

**HELLER BROS.**

| Length | | 10 | 11 | 12 | 14 | 16 inch. |
|---|---|---|---|---|---|---|
| Heller Bros. | per dozen | .... | .... | 15.00 | 24.00 | 30.00 |
| No. 609, Wynn s | " | $8.10 | .... | 11.40 | .... | .... |
| " 1040, " | " | $5.80 | .... | 9.00 | .... | .... |
| " 1032, Boker's | " | .... | .... | 9.50 | 12.50 | .... |
| " 1030½ " | " | $5.10 | 6.50 | 7.60 | .... | .... |

## CUTTING NIPPERS



| Length | | 12 | 14 inch. |
|---|---|---|---|
| Heller Bros. | per dozen | $20.00 | 24.00 |
| No. 10, American | " | $15.00 | 16.00 |

## HOOF PARERS



14 inch, Heller Bros. ..... per dozen $24.00

## CLINCH TONGS



14 inch, Heller Bros. ..... per dozen $22.00

## FORGING TONGS



Heller Bros.' Forging Tongs (see cut), 12 to 17 inches. ..... per dozen $5.00
No. 1, Stearns, Straight, Swivel Jaw Blacksmith Tongs, 16 inch ..... " 15.00
" 2, " " " " " 18 " ..... " 15.00

## BLACKSMITH STRAIGHT LIP TONGS

No. 21, Length 18 inches, Drop Forged, Oil Finished, no Weld ..... per dozen $3.80
" 22, " 20 " " " " " ..... " 5.40

## CARPENTERS' PINCERS



| Length | 5 | 6 | 7 | 8 | 9 | 10 inch |
|---|---|---|---|---|---|---|
| No. 1026½, per doz. | $1.35 | 1.40 | 1.75 | 2.15 | 3.25 | 3.75 |

## SHOEMAKERS' PINCERS



No. 928, Bright, 7 inches long ..... per dozen $4.25
" 928½ " 8¼ " " ..... " 5.25

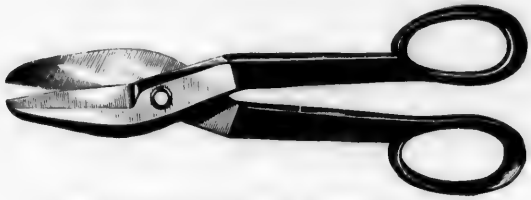
# TINNERS' SHEARS

## BENCH SHEARS



No. 4—Cuts 8 inches ..... each $7.00
" 5— " 7 " ..... " 5.00
" 6— " 6 " ..... " 5.00

## TINNERS' HAND SHEARS



### PECK, STOW & WILCOX STRAIGHT CUT

| Nos | 6½ | 7 | 8 | 9 | |
|---|---|---|---|---|---|
| Length of cut | 4½ | 4 | 3½ | 3 | inch. |
| Price ..... each | $3.75 | 3.15 | 2.50 | 1.90 | |

### HEINISCH'S STRAIGHT CUT

| Nos | 7 | 8 | 9 | 10 | |
|---|---|---|---|---|---|
| Length of cut | 4 | 3½ | 3 | 2½ | inch. |
| Price ..... each | $2.75 | 2.20 | 1.65 | 1.55 | |

JEWELLERS' Steel Laid Hand Shears, Nickelled, 1½ inch cut ..... per dozen $16.80
" " " " Japanned 1½ " ..... " 14.00



### CIRCULAR CUT

| Nos. | 8 | 9 | |
|---|---|---|---|
| Length of cut | 3½ | 3 | inch. |
| Peck, Stow & Wilcox ..... each | $3.75 | 3.15 | |
| Heinisch ..... " | $3.30 | 2.75 | |



### AJAX TINNERS' SHEARS

| Length over all.... | 10½ | 11¼ | 12 | inch. |
|---|---|---|---|---|
| Length of cut ..... | 2½ | 2¾ | 3 | " |
| Price ..... per dozen | $12.00 | 15.00 | 18.00 | |



### GERMAN SNIPS

**No. 112A**

| Length over all ..... | 8 | 9 | inch. |
|---|---|---|---|
| Price ..... per dozen | $7.00 | 8.00 | |

# GASOLINE HEATERS AND TORCHES




**No. 1—HELPER**

Single Burner, Swivel Mounted, removing Hood.
The Tank is made of Heavy Sheet Brass.

Price ..... each $8.00




**No. 2—HELPER**

Double Burner, Swivel Mounted, removing Hood.
The Tank is made of Heavy Sheet Brass.

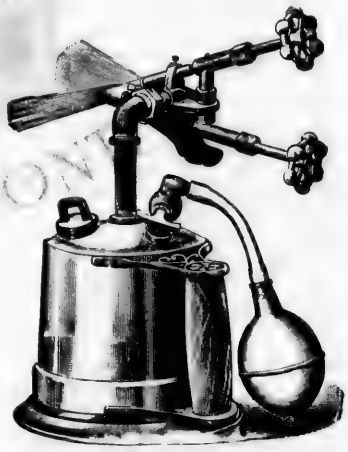
Price ..... each $11.75



**PERFECTION TORCH**

The Burner is made of Brass and has a strong Generator, holds about one quart.

Price ..... each $5.15



**ELECTRICAL FORGE**

Suitable for Electricians and Bicycle makers.

Price ..... each $7.85

# GASOLINE HEATERS AND TORCHES



Diamond Torch, holds about a half pint of Gasoline ..... each $4.00



## ELECTRIC BLOW TORCH

Weight, two pounds when empty, three pounds when filled, specially adapted for Linemen and General Electricians. Price..... each $5.40

ELECTRIC BLOW TORCH



COMBINATION BLOW TORCH

## COMBINATION BLOW TORCH

A combined Brazer, Soldering-Iron Heater, and Blow Torch. Price ..... each $7.00

# GASOLINE HEATERS AND TORCHES



**IMPERIAL BLOW TORCH**

Holds three pints. Burns about four hours with one filling and pumping.

Price.....each $6.00



**BRAZIERS' BLOW TORCH**

Holds three pints. Burns about four hours with one filling and pumping.

Price.....each $7.00

## EUREKA BRAZER




**NO COAL DUST OR ASHES**

**NO HEAT WHEN NOT IN USE**

The great advantage that this machine possesses over others is that the burners are mounted on SWIVEL JOINTS, thus enabling the operator to adjust them in such a manner that the flames will meet where the heat is required upon the work to suit the operator. The tank is made of heavy galvanized iron and strong enough to stand any air pressure which is required to get good results from the flames. The air gauge is so placed that the operator can always see the amount of pressure there is on the tank, as it requires from 15 to 20 pounds to do good brazing.....Price, without pump $30.00

# SOLDERING COPPERS



| Nos. | 00 | 0 | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|---|
| Weight lbs. each | ½ | ¾ | 1 | 1½ | 2 | 2½ |
| Price, without handle " | $0.20 | 0.30 | 0.40 | 0.55 | 0.70 | 0.90 |

## SOLDERING SETS




No. 2

In Wooden Boxes containing Soldering Iron, Bar of Solder, Box of Resin.

No. 1 –Adapted for attaching to gas burner ..... per dozen sets $19.80
" 2 –Not adapted to gas burners ..... " " 10.90




No. 3

No. 3 –Containing Soldering Iron, Bar of Solder and Box of Resin ..... per dozen sets $5.25

## LEAD LADLES



| Diameter | 3 | 3½ | 4 | 5 | 6 | 8 inch. |
|---|---|---|---|---|---|---|
| Wrought Iron per dozen | $1.70 | 2.00 | 2.45 | 3.75 | 5.20 | 11.50 |

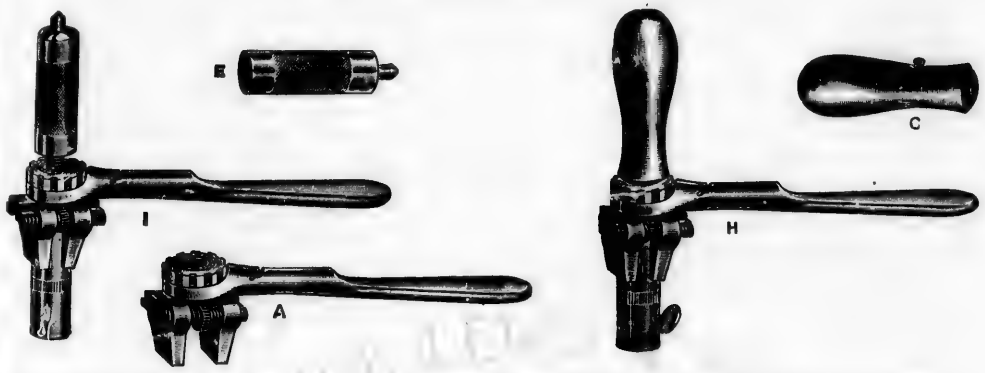
Long Handle, Galvanized Potash Ladles, 10 inch diameter ..... per dozen $24.15
" Black " " 10 " " ..... " 18.65



Cast Iron, with Wood Handle, Wrought Shank.

No. 1–2 inch diameter ..... per dozen $1.75
" 2–2½ " " ..... " 2.15

# KEYSTONE COMBINATION RATCHET

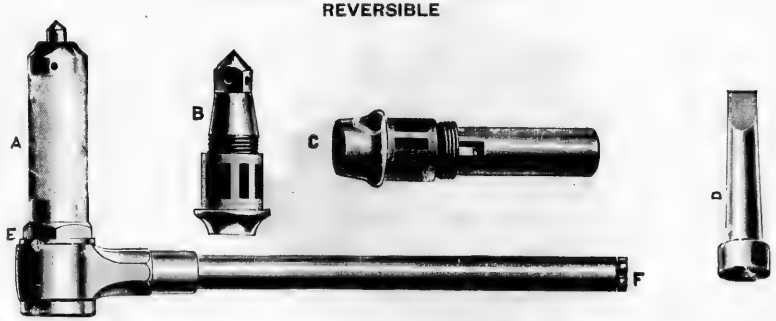



Combination No. **1** includes Wrench (Fig. A); Bit Holder with wood handle, as in Fig. H; Drill Socket, (either Square or Morse Taper), with Feed Nut, (Fig. E). Combination No. **1**, complete ..... $5.00

| | | |
|---|---|---|
| Wrench (9-inch handle, square jaws) | each | 2.50 |
| Bit Holder | " | 1.00 |
| Drill Socket, with Feed Nut | " | 1.50 |

## KEYSTONE RATCHET DRILL

**REVERSIBLE**




This illustration shows Ratchet Drill adjusted for **Morse No. 2 Taper Shank Drills.** Cut C represents Morse Taper Socket. Cut D, Square Socket to fit Morse Taper Socket. Cut B, Boiler-makers' Drill for Square Shank Drill. F indicates the knob for reversing the movement of Ratchet.

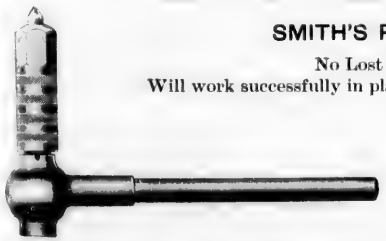
| No. | | **1** | **2** | **3** | |
|---|---|---|---|---|---|
| Length | | 10 | 14 | 16 | inch. |
| Ratchet, with Morse Taper Socket | each | $5.25 | 6.00 | 6.75 | |
| Boiler-makers' Ratchet with Short Feed | " | $5.00 | 5.75 | 6.50 | |
| Square Shank, Sleeve Separate | " | $1.00 | 1.25 | 1.25 | |
| Socket for Boiler makers' Drill and Feed Screw | " | $1.50 | 1.75 | 2.00 | |

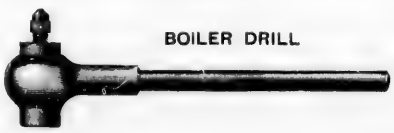
N.B.—All Drill Sockets Interchangeable with Holder.

## SMITH'S PATENT FRICTION RATCHET

No Lost Motion. Instantaneous Clutch.

Will work successfully in places so contracted that a Ratchet is entirely useless.

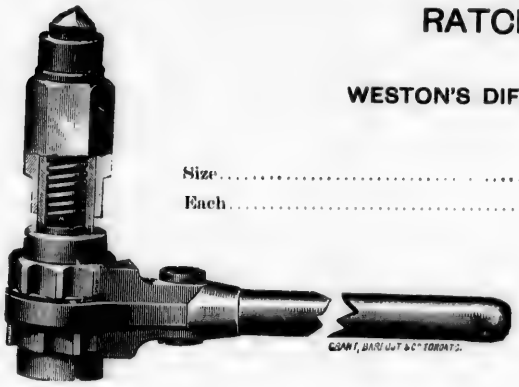





| | | |
|---|---|---|
| No. **1**—12-inch Handle, includes Wrench, made for Square or Round Shank Drills | each | $8.25 |
| " **2**—10 " " Boiler Drill for Square Shank Drills | " | 6.50 |

# RATCHET DRILLS

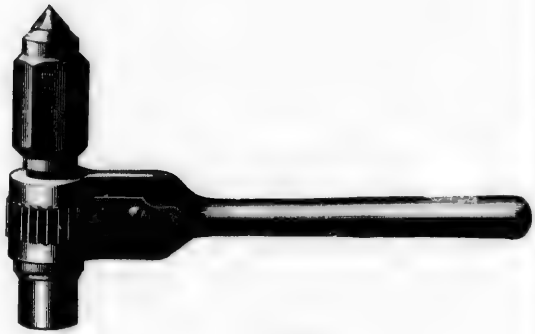
## WESTON'S DIFFERENTIAL RATCHETS



| Size | 12 | 14 | 16 inch. |
|---|---|---|---|
| Each | $5.25 | 5.70 | 6.15 |

### No. 01B RATCHETS

| Size | 12 | 14 | 16 | 18 inch. |
|---|---|---|---|---|
| Each | $3.85 | 4.50 | 5.15 | 5.80 |



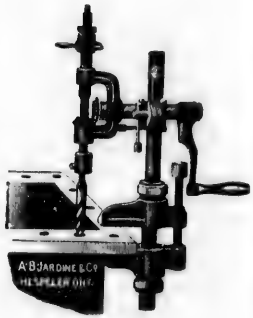
No. 01B

### No. 74½ RATCHETS

Have Round Sleeve, instead of Hexagon as in No. 01B.

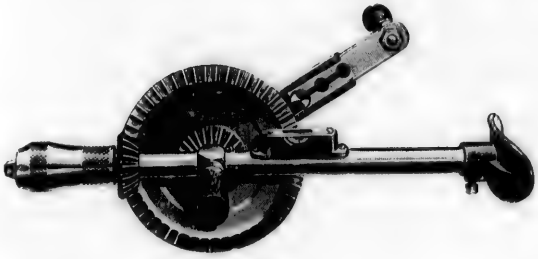
| Size | 12 | 14 | 16 | 18 inch. |
|---|---|---|---|---|
| Each | $3.30 | 3.75 | 4.25 | 5.75 |

## RATCHET HAND DRILLING MACHINE



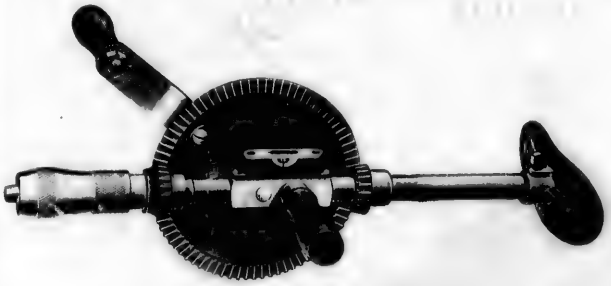
This machine will bore holes at any angle within an outside diameter of 14 inches, or inside diameter of 9½ inches. There is a ratchet on the end of the Spindle, and another on mitre wheel shaft. The crank is used on the one that is most convenient. The Feed Screw traverses 2½ inches. The Spindle is made to fit ½ inch Shank Twist Drills. Weight, 40 lbs. ..... each $20.50

# BREAST DRILLS



No. 10

BALL BEARING—Nickel Plated Stock and Chuck, will hold both round and square Shank Drills. The Gears are cut, and are changeable from even to 3 to 1. Price, ..... each $4.95



No. 13

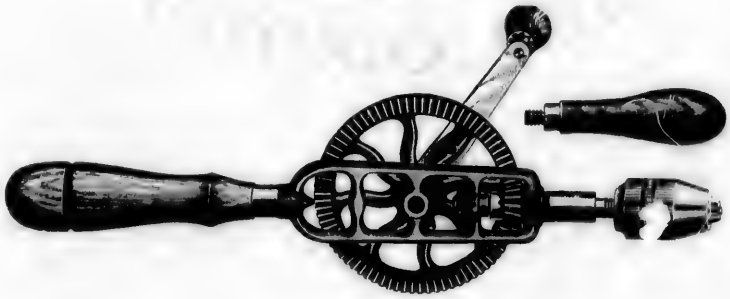
BALL BEARING Has 6-inch Drive Wheel, giving speed 4½ to 1. Double geared. Nickel-Plated Stock and Chuck. Price, ..... each $6.60



No. 12

BALL BEARING — Changeable Gear from even to 3 to 1. 5-inch Drive Wheel, has new alligator jaw, suitable for round or square Shank Drills. Price, each ..... $4.15

## HAND DRILL



No. 2

BALL BEARING It has cut gears and an adjustable friction roll to prevent gears from springing out of engagement. The cut shows an extra handle, to be attached when it is desired for use in manner of a breast drill. The Chuck holds from 0 to 17-64. Price, with 8 fluted points ..... each $4.15

# HAND DRILLS



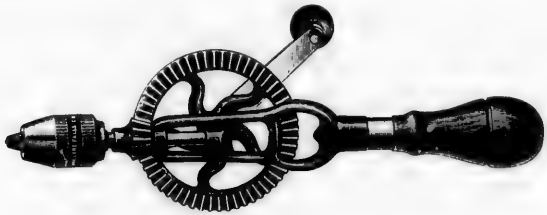

GOODELL'S AUTOMATIC DRILLS.



No. 4

This Drill Stock is eight inches in length, and weighs eight ounces. It is made of iron, with rosewood handle and Chuck for holding the Drill Points. This Chuck is made on a new plan, and it centers and holds the Drill perfectly. A box containing six superior Drill Points, of various sizes, with each Drill.

No. 4—Stock and Drills ..... each $0.85
Extra Drill Points per set (6), $\frac{1}{32}$ to $\frac{5}{16}$ inch ..... " 0.30



No. 1

These Drills are now made with three jaws, resting in solid sockets, and there are no springs to get out of place or out of order. The Chucks are nickeled and the Handles cocobola. They hold Drills from 0 to $\frac{5}{16}$.

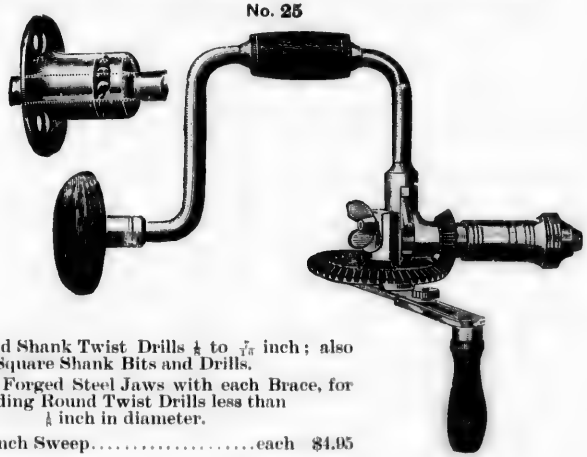
An extra handle, as shown with No. 2, is now furnished with this Drill.

No. 1—Including 8 Fluted Points in hollow handle ..... each 2.10

## BALL-BEARING DRILL BRACE

NICKEL-PLATED WITH ROSEWOOD HANDLE AND LIGNUM-VITÆ HEAD.

No. 25



Holds Round Shank Twist Drills $\frac{1}{4}$ to $\frac{7}{16}$ inch; also Square Shank Bits and Drills.

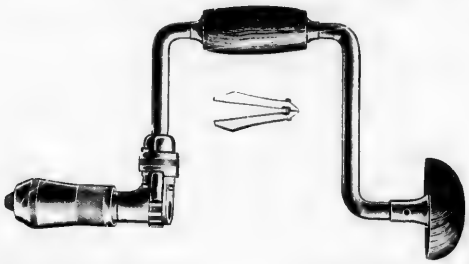
Extra set of Forged Steel Jaws with each Brace, for holding Round Twist Drills less than $\frac{1}{4}$ inch in diameter.

No. 25—10 inch Sweep ..... each $4.95

## GOODELL'S AUTOMATIC DRILLS

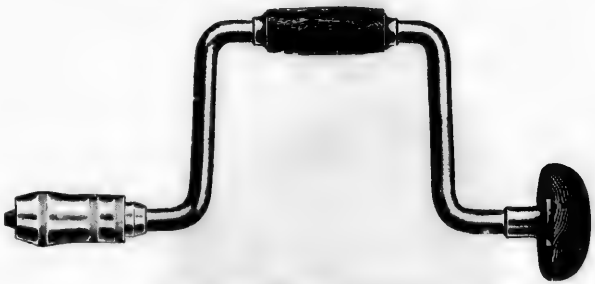
The Drill Points are contained in the handle, each in a separate compartment and the exact location of each size is seen at a glance. These tools are made of hollow brass, nickel-plated, packed one in a box.
Price, each, with 8 Drill Points ..... $2.75
Extra Drill Points, per set (8) ..... 0.85

# BARKER'S IMPROVED RATCHET BRACES



| Polished Steel Sweep, Stained Hardwood Head and Handle. | | | Nickel-Plated Steel Sweep, Cherry Handle and Head. | | |
|---|---|---|---|---|---|
| No. **110**—10 inch Sweep | per doz. | $11.90 | No. **610**—10 inch Sweep | per doz. | $18.15 |
| " **112**—12 " " | " | 12.50 | " **612**—12 " " | " | 18.75 |

## BARKER'S IMPROVED BRACES



| Plain, with short Sleeve Chuck. | Per doz. | Polished Steel Sweep, Walnut Head and Handle. | Per doz. | Nickel-Plated Steel Sweep, Rosewood Head and Handle. | Per doz |
|---|---|---|---|---|---|
| No. **1108**—8 inch Sweep | $5.65 | No. **1308**—8 inch Sweep | $6.25 | No. **1608**—8 inch Sweep | $11.25 |
| " **1110**—10 " " | 6.25 | " **1310**—10 " " | 6.90 | " **1610**—10 " " | 11.90 |
| | | " **1312**—12 " " | 7.50 | " **1612**—12 " " | 12.50 |

## SPOFFORD'S BRACES



| Iron Head. | | | Wood Head and Handle, Nickel-Plated. | | |
|---|---|---|---|---|---|
| No. S **8**—8 inch Sweep | per doz. | $19.00 | No. S **108**—8 inch Sweep | per doz. | $24.00 |
| " S **10**—10 " | " | 22.00 | " S **110**—10 " " | " | 27.00 |
| " S **12**—12 " | " | 25.00 | " S **112**—12 " " | " | 30.00 |

# BARBER'S IMPROVED BRACES



Polished Steel Sweep, Ebonized Head and Handle, Steel Quill with Anti-friction Steel Collar.

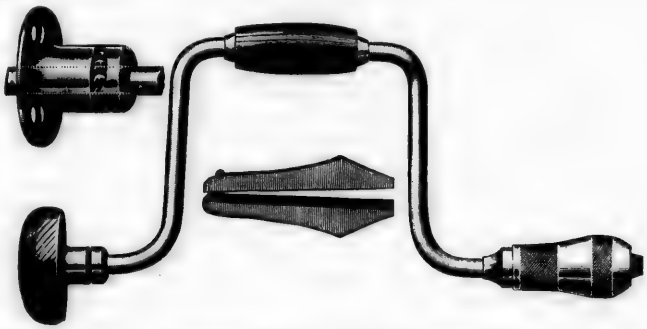
No. **23**— 8 inch Sweep ..... per doz. $7.75
" **22**—10 " ..... " 8.90
" **21**—12 " ..... " 10.10

### RATCHET BRACES

No. **123**— 8 inch Sweep ..... per doz. $16.80
" **122**—10 " ..... " 18.00

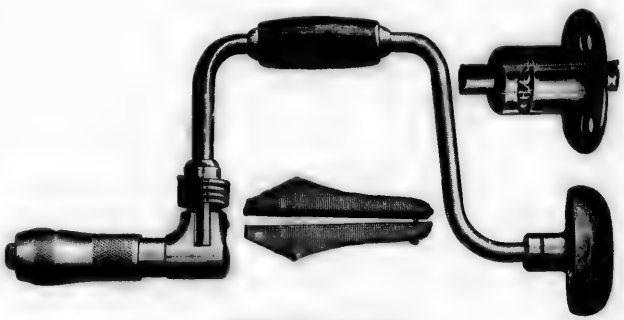
## BARBER'S IMPROVED BALL-BEARING BRACES

Nickel-Plated Steel Sweep, Rosewood Handle with inserted Brass Rings. The Chuck has a hardened steel anti-friction washer between the two sockets. The Head has a bearing of steel balls, running on hardened steel plates. Jaws are forged steel.



No. **15**—4 inch Sweep ..... per doz. $20.00
" **14**—6 " ..... " 21.00
" **13**—8 " ..... " 24.00

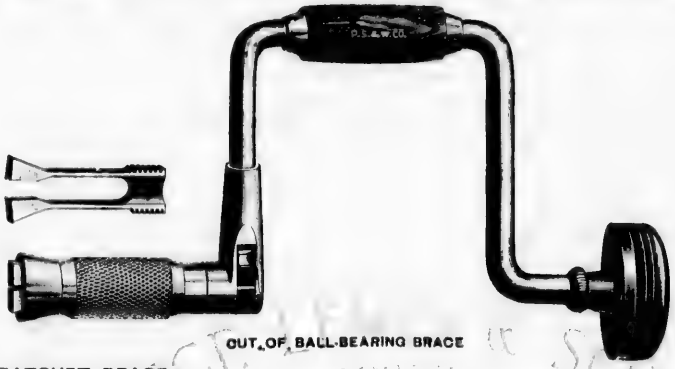
No. **12**—10 inch Sweep ..... per doz. $27.00
" **11**—12 " ..... " 30.00
" **10**—14 " ..... " 33.00



### RATCHET BRACES

No. **38**—10 inch Sweep ..... per doz. $36.00
" **31**—12 " ..... " 39.00

# P. S. & W. PATENT ADJUSTABLE BRACES



CUT OF BALL-BEARING BRACE

## RATCHET BRACE

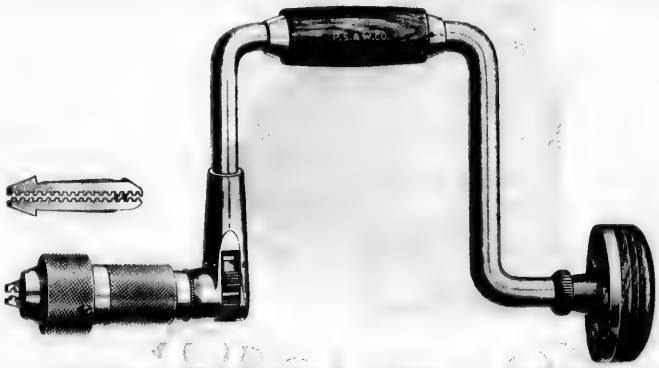
| | | | |
|---|---|---|---|
| No. **0104**— 6 inch Sweep | per doz. | $26.25 |
| " **0103**— 8 " | " | 28.15 |
| " **0102**—10 " | " | 30.45 |
| " **0101**—12 " | " | 32.75 |
| " **0100**—14 " | " | 37.75 |
| " **92**—10 inch Sweep, without Ratchet | " | 23.50 |

## BALL-BEARING RATCHET BRACE

| | | | |
|---|---|---|---|
| No. **1003**— 8 inch Sweep | per doz. | $29.40 |
| " **1002**—10 " | " | 31.90 |
| " **1001**—12 " | " | 34.00 |
| " **1000**—14 " | " | 39.00 |

Half dozen in a package.

## WITH BALL-BEARING HEAD, FITTED WITH SAMSON BALL-BEARING CHUCK

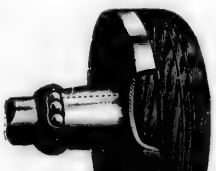


Nickel-plated Steel Sweep, Lignum-vitæ Heads, Rosewood Centers.

These Braces are **finely finished** and **accurately fitted in every part. The sleeve of the chuck is drilled through** solid cast steel. The jaws open parallel or at a slight angle; are interlocking, and grip firmly either round, tapering or square shanks the entire length of the jaw, so that square shanks will not slip and round or tapering shanks will not turn or twist.



Samson Chuck used in Brace.



Ball-Bearing Head.

| | | |
|---|---|---|
| No. **1202**—10 inch Sweep Ratchet Brace | per doz. | $37.00 |
| " **1201**—12 " " | " | 39.20 |

Packed in hinged wooden boxes, half dozen in a box.

# ANGULAR BIT STOCKS AND BRACES

## ANGULAR BIT STOCK



No. **35** .....each $2.25

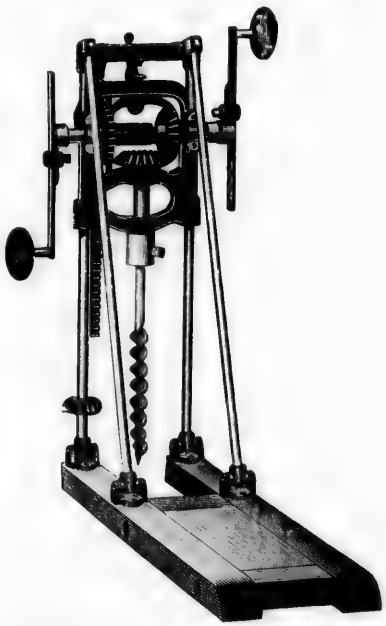
## CORNER BRACE



Full Nickel-Plated, Cocobola Head and Handles.

No. **A8**—8 inch Sweep .....each $4.15
" **A10**—10 " " ..... " 4.60

## MILLER'S FALLS BORING MACHINE



In this machine the frame is made of half-inch round steel rods; the braces are the same, and attached to the rods at the top by a set screw. When this set screw is loosened the frame falls over, so as to bore at any desired angle.

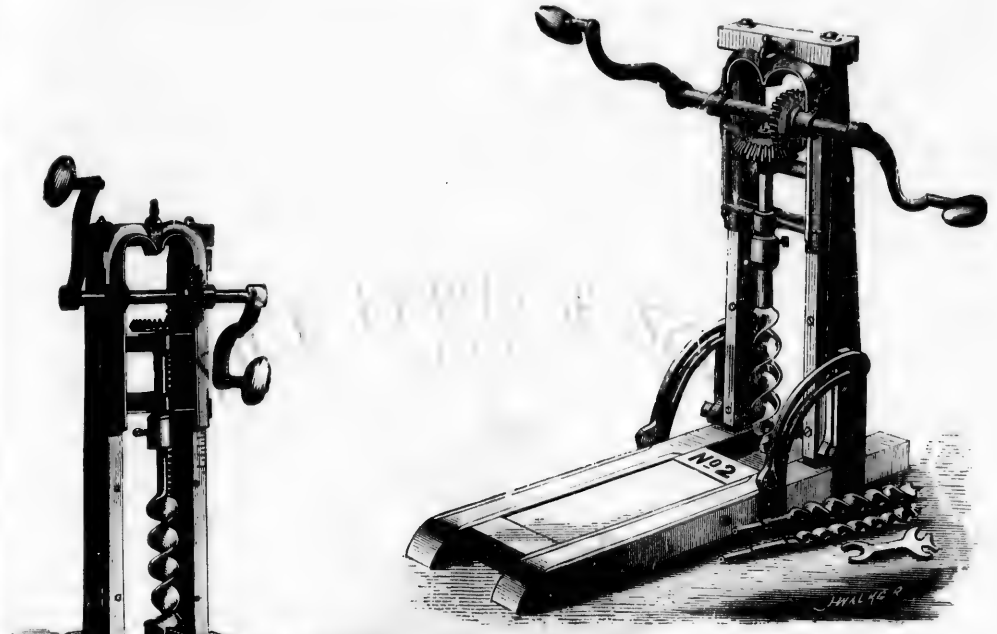
The depth of the hole to be bored is fixed by a stop, as seen on the left-hand upright rod in the cut. When the frame strikes this stop, lift the latch and the machine throws itself into gear by the use of a spring, and the Auger is lifted out of the hole by continuing to turn the crank in the same direction.

When the Auger is drawn from the hole, the frame hangs itself up until the machine is moved to the next hole; then it is dropped down by turning the crank back until the Auger strikes the wood, when it is thrown out of gear, and proceeds to bore the next hole. As seen in the cut, the machine has adjustable cranks, which fully regulate its speed and power.

Machine without Auger.....each $12.35

# CARPENTERS' BORING MACHINES

## WITH HARDWOOD FRAME AND BASE




Style of Nos. **2** and **2½**.



Style Nos. **1** and **3**

### UPRIGHT

No. **1**—Round Shaft.....each $5.90
" **3**—Square " ..... " 6.80

### ANGULAR

To slant one way, with Wrench.

No. **2**—Round Shaft.....each $6.70
" **2½**—Square " ..... " 7.10

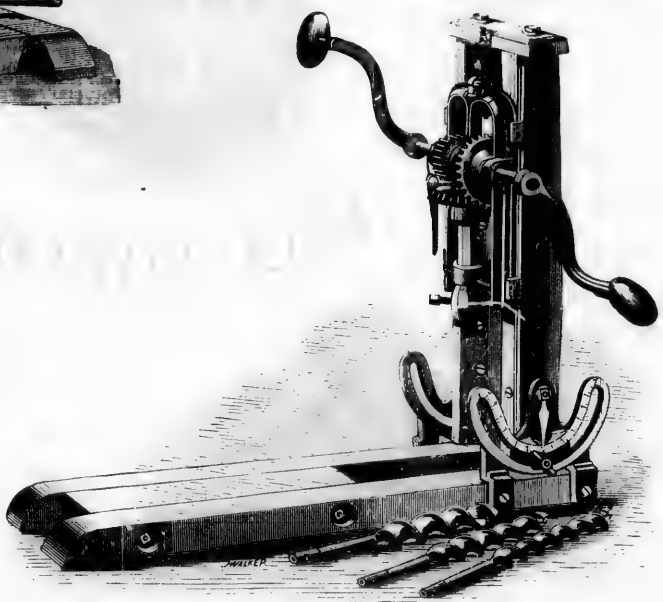
### ANGULAR

To slant both ways, with Angle Indicator.

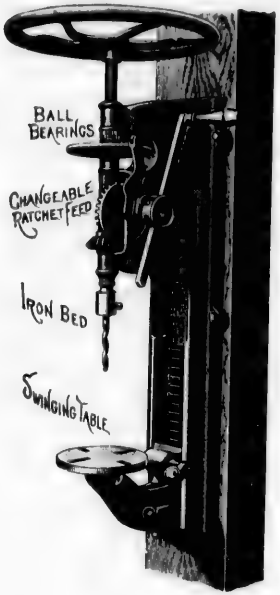
No. **4**—Round Shaft.....each $6.70
" **4½**—Square " ..... " 7.10

*Price Without Auger Bits.*

For Auger Bits see page 165.



Style Nos. **4** and **4½**.




No. AA

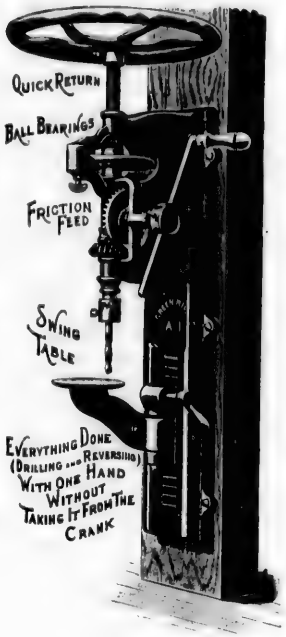
## NEW GREEN RIVER DRILLING MACHINES

We offer these machines with the novelty of a complete set of steel ball bearings, which gives relief to the friction and makes work very easy.

No. **AA**—Drills to 1 inch to 15 inch circle. Table can be raised or lowered 14 inches, weight 175 lbs. Price, each..... $22.50

No. **AA for Power**—Fitted with tight and loose pulleys, enabling this machine to run by both hand and power, $9.00 extra to list.

No. **A1**—Drills to 1 inch to 15 inch circle. Table can be raised or lowered 14 inches, weight 175 lbs. Price, each..... 22.50




No. A1




No. 22

## GREEN RIVER DRILLING MACHINES

No. **22**—Drills to 1 inch to 15 inch circle. Table can be raised or lowered 14 inches, weight 180 lbs. Price, each $27.00

No. **2**—Drills to 1 inch to 15 inch circle. Table can be raised or lowered 14 inches, weight 180 lbs. Price, each 38.25

No. **2 For Power**—Fitted with Pulley for Belt $7.50 extra to list.

Spindles bored for ½ inch Shank Drills.

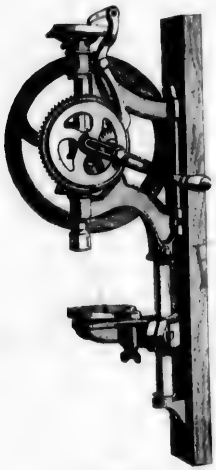


No. 2

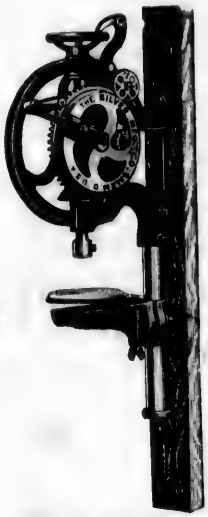
# SILVER'S POST DRILLS



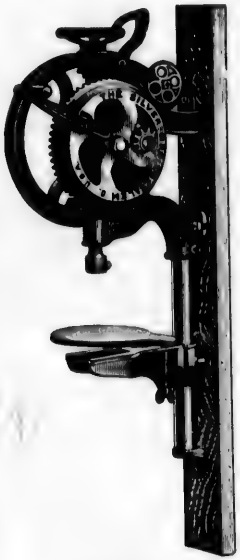
No. 730 × 1½



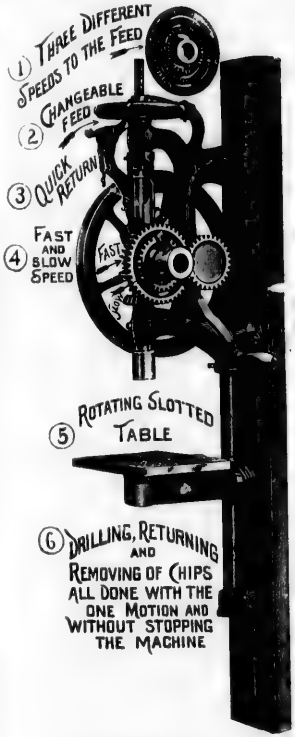
No. 731 × 1



No. 732 × 2



No. 734 × 3




WESTERN CHIEF NO. 1

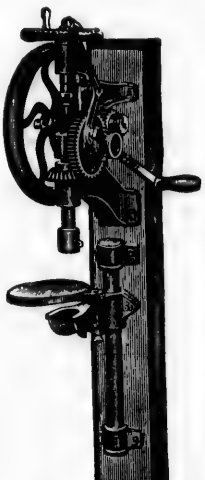
| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No. **730 × 1½**—Drills | ¾ | inch to | 12 | inch circle, | weight | 55 lbs... | each | $ 7.00 |
| " **731 × 1** " | ¾ | " " | 12 | " | " | 80 lbs... | " | 9.50 |
| " **732 × 2** " | 1 | " " | 14½ | " | " | 100 lbs... | " | 11.25 |
| " **734 × 3** " | 1¼ | " " | 16 | " | " | 140 lbs... | " | 16.00 |

## WESTERN CHIEF DRILLS

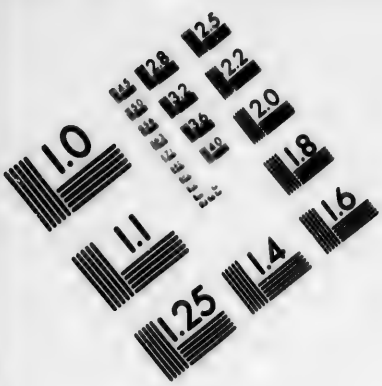
No. **1**—Drills 1½ inch to 15 inch circle.
Price.....each $20.25

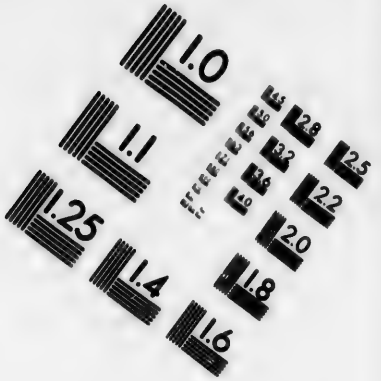
No. **3**—Drills 1 inch to 14½ inch circle.
Price.....each 12.00

Spindles bored for ½ inch Shank Drills.

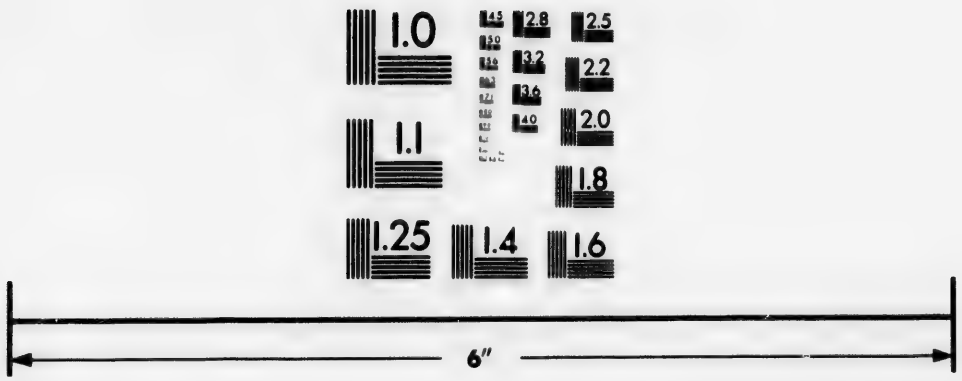


WESTERN CHIEF NO. 3



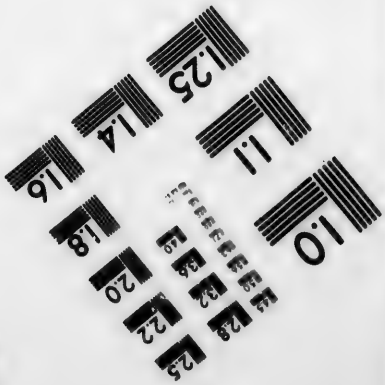




# IMAGE EVALUATION TEST TARGET (MT-3)





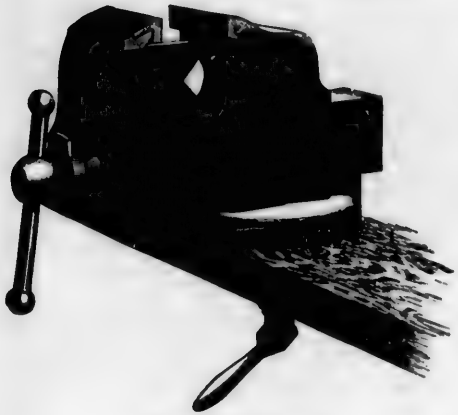





Photographic Sciences Corporation

23 WEST MAIN STREET
WEBSTER, N.Y. 14580
(716) 872-4503

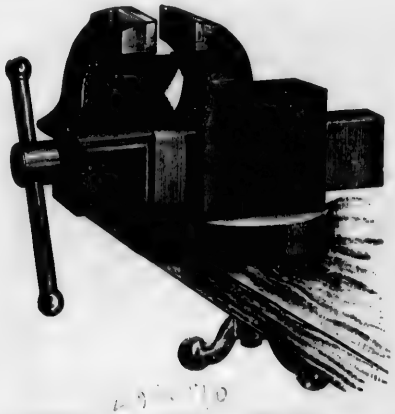
# COMBINATION PIPE VISES



**PARKER'S PATENT**

| | Width of Jaws | Weight | Price |
|---|---|---|---|
| No. 87 | 3½ inch ..... | 41 lb. ..... | $16.00 |

Holds Pipe 2 inches and under.



| | Width of Jaws | Weight | Holds Pipe | Price |
|---|---|---|---|---|
| No. 100 | .. 3½ inch | .. 50 lb. | .. ⅛ to 2 inch | .. $16.00 |
| " 105 | .. 4 " | .. 65 " | .. ⅛ to 3 " | .. 20.00 |
| " 113 | .. 4 " | .. 63 " | .. ⅛ to 2 " | .. 14.00 |
| " 115 | .. 4½ " | .. 85 " | .. ⅛ to 3 " | .. 18.00 |



No. 167

No. **167**—Pipe Vise. It is adapted for all sizes from ⅜-rod to 2-inch pipe. It may be bolted to a bench, but when for portable use should be fastened to a 2x3 inch plank from 2½ to 3 feet long. It will be found very useful to pump men for suspending the pipe from the platform while screwing the parts together, especially in deep wells. Price .....each $3.00

## OPEN JAW PIPE VISES



Cast Iron Frame. Wrought Iron Screw. Cast Steel Jaws.

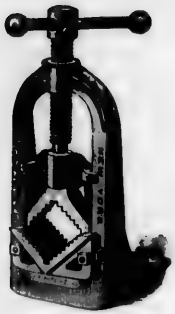
| | Weight | Holds Pipe | Price |
|---|---|---|---|
| No. 17 ..... | 62 lb. ..... | ⅛ to 3 inch ..... | $11.00 |



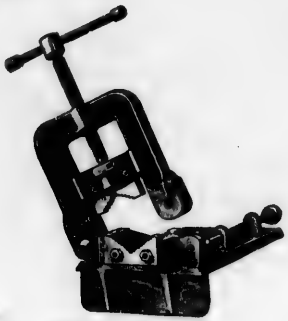
Malleable Iron Frame.

| | Weight | Holds Pipe | Price |
|---|---|---|---|
| No. 1H ..... | 15lb. ..... | ⅛ to 2 inch ..... | $ 6.00 |
| " 2H ..... | 90 " ..... | 2 to 6 " ..... | 27.00 |

# PIPE VISES



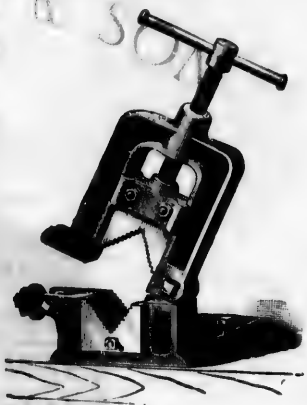
No. 0



Nos. 15 and 20



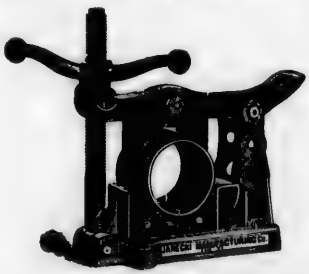
Nos. 1 and 2



No. 5

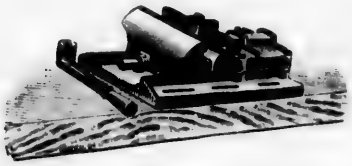
| | | | |
|---|---|---|---|
| No. 0 | —Steel (cast) Frame, Light Portable Pipe Vise, weight 10 lbs., holds Pipe ⅛ to 2 inches | each | $ 8.50 |
| " 1 | —Malleable Frame, Hinged Pipe Vise " 20 " " ¼ to 2 " | " | 10.00 |
| " 2 | — " " " " " 26 " " ¼ to 3 " | " | 14.00 |
| " 5 | — " " " " " 20 " " ¼ to 2½ " | " | 5.00 |
| " 15 | — " " " " " 25 " " ¼ to 3 " | " | 6.50 |
| " 20 | — " " " " " 35 " " ¼ to 4 " | " | 9.00 |

## THE JARECKI PATENT PIPE VISE



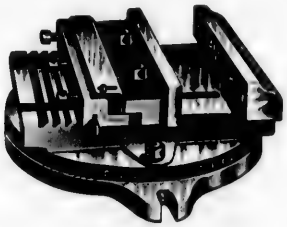
| Nos. | 1A | 2A | 3A | 4A |
|---|---|---|---|---|
| Holds Pipe | ¼ to 2 | ¼ to 4 | 1½ to 6 | 6 to 12 |
| Price each | $12.00 | $16.00 | $24.00 | $60.00 |

# DRILL AND PLANER VISES



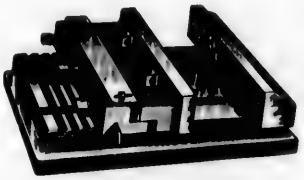
INSTANTANEOUS GRIP

No. 6E—Width of Jaws 5½ inches, Jaws open 6½ inches ..... $32.70
" 8E — " " 9 " " 8½ " ..... 47.25



ROUND BASE

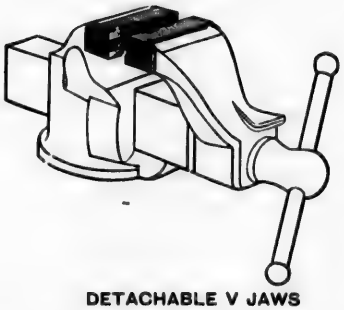
| Width of Jaw. | Will Open. | Price. |
|---|---|---|
| 6 inch | 3½ inch | $37.50 |
| 8 " | 5 " | 45.00 |
| 12 " | 7 " | 00.00 |



SQUARE BASE

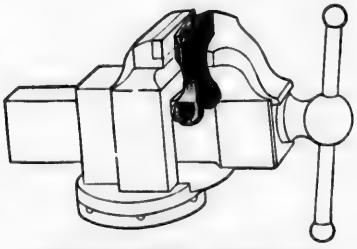
| Width of Jaw. | Will Open. | Price. |
|---|---|---|
| 6 inch | 3½ inch | $30.00 |
| 8 " | 5 " | 37.50 |
| 12 " | 7 " | 52.50 |

## VISE JAWS



DETACHABLE V JAWS

| Width of Jaw. | Per Set. |
|---|---|
| 2 inch | $2.50 |
| 4½ " | 4.75 |
| 6 " | 5.50 |



SELF-ADJUSTING TAPER JAW

| Width of Jaw. | Price. |
|---|---|
| 3½ inch each | $2.00 |
| 3½ " " | 2.75 |
| 4 " " | 3.25 |

The Taper Jaw may be instantly adjusted to or detached from the Vise. It is invaluable for holding irregular forms, and it is the most perfect Adjustable Jaw.

# BENCH VISES



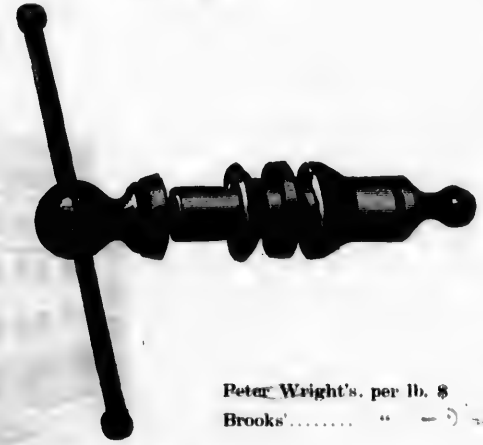
## BLACKSMITHS,' SOLID BOX, WROUGHT IRON LEG

| Approximate Weight of Jaws | 3 | 3½ | [3½ | 4 | 4½ | 5 | 5½ | 6 | 6½ | 7 inch. |
|---|---|---|---|---|---|---|---|---|---|---|
| About | 20 | 25 | 30 | 35 | 50 | 80 | 90 | 100 | 120 | 150 lbs. |

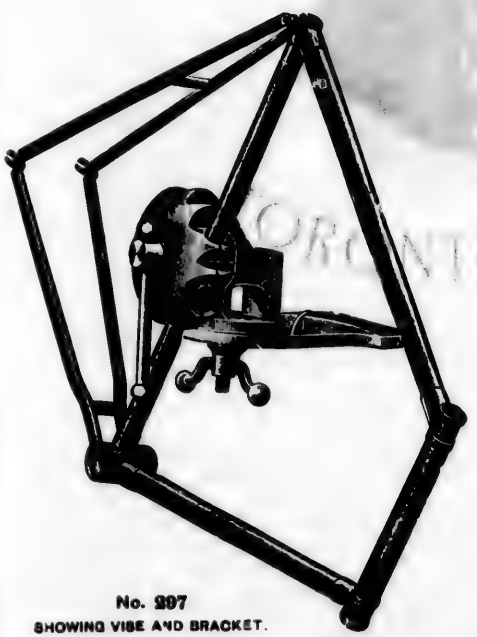
Peter Wright's ..... Price, per lb. $
Brooks' ..... "

## WROUGHT IRON BOXES AND SCREWS

FOR SOLID BOX VISES



Peter Wright's, per lb. $
Brooks' ..... "



No. 297
SHOWING VISE AND BRACKET.

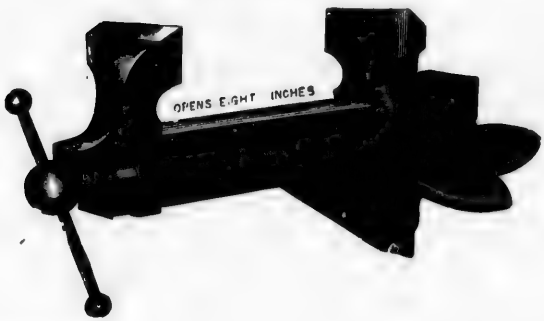
## BICYCLE TUBE VISE

No. **297**—Holds Bicycle Tubing ⅜, ½, ¾, 1, 1¼ and 1½. We can supply these Vises with either the **regular screw movement** (like cut) with spring opening jaws, or the **instantaneous grip motion** which is effected by means of a pin working on a cam, and tightens the jaws on the tubing in the quarter of a revolution.

Price, with Bracket ..... $8.25
Price, without Bracket ..... 7.50

# BENCH VISES

## COACHMAKERS' VISES



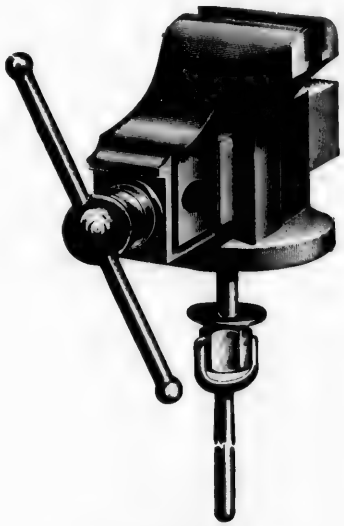

No. **8**—Jaws 4 inches, opens 8 inches ..... each $ 8.40
" **10**— " 3½ " " 7½ " with Swivel Jaw and Base ..... " 10.75

### PARKER'S

No. **40**—Jaws 4½ inches, opens 9 inches ..... each $15.40

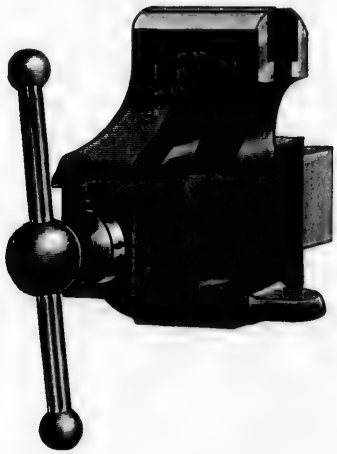
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## OFFSET JAW VISES



SWIVEL BASE

| | Width Jaw. | Opens. | Weight. | Price. |
|---|---|---|---|---|
| No. **71** .... | 2 in. | 3 in. | 6 lbs. | $5.00 |
| " **72** .... | 4½ " | 7 " | 65 " | 13.00 |
| " **73** .... | 6 " | 10 " | 145 " | 28.00 |

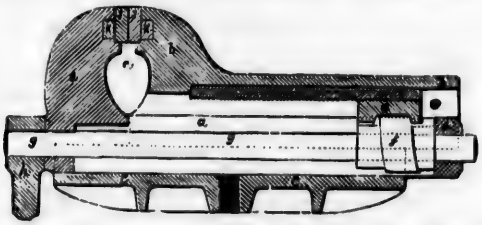


| | Width Jaw. | Opens. | Weight. | Price. |
|---|---|---|---|---|
| No. **80**—Straight Jaw | 4½ in. | 9 in. | 60 lbs. | $10.00 |
| " **90**—Offset | 4½ " | 9 " | 60 " | 10.50 |

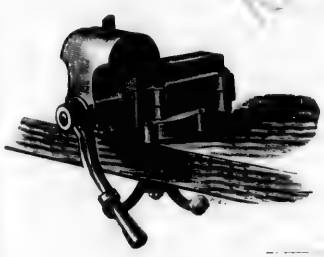
# BENCH VISES

## PATENT INSTANTANEOUS-GRIP PARALLEL VISES

**Save the First Cost in Twelve Months. Grips Instantly. Holds Firmly. No Lost Motion.**



As will be readily understood from the sectional view, this Vise fastens any size of work instantly. Its action is simplicity itself. The work is held in one hand, and the Loose Jaw is with the other hand pushed against it, and by a little more than a quarter of a turn of the handle, the work is instantly and firmly fastened, all screwing being entirely dispensed with. When the work is too heavy for one hand, the fitter can hold it with both hands, and by a simple movement of the body throw the handle over and fasten the work without calling the aid of another man. The Vises will stand any amount of hard usage, and from the fewness of parts, it is almost impossible for them to get out of order. The grip is certain and does not relax under heavy work.



### BENCH VISE

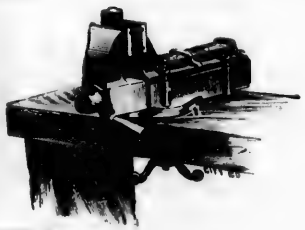
(All Engaging Parts Steel.)

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| No. **0E**— | Width of Jaws | 3 | inches, | Jaws open | 3 | inches | ..... | | $12.00 |
| " **01E**— | " | " | 4 | " | " | " | 4 | " | ..... | | 13.80 |
| " **1E**— | " | " | 5 | " | " | " | 5 | " | ..... | | 16.50 |
| " **2E**— | " | " | 6 | " | " | " | 6½ | " | ..... | | 19.80 |
| " **3E**— | " | " | 7 | " | " | " | 8½ | " | ..... | | 28.00 |

### COACHMAKERS' VISE

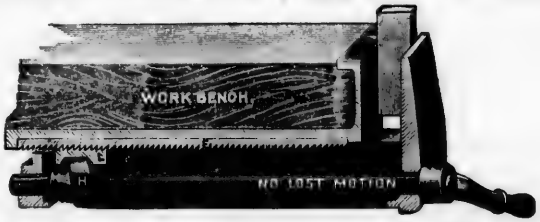
Arranged for fixing on top of the bench, and made to swivel to any position to accommodate the work. Fitted with Steel Jaws.

No. **3J**—Width of Jaws 4½ inches, Jaws open 3 inches..... $14.35



### JOINERS' VISE

For Cabinet Makers, Joiners, Pattern Makers, and Woodworkers generally.



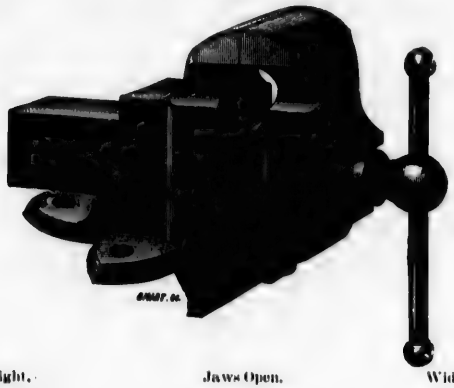

No. **1J**

Works on same principle as Engineer's Vise. Fastens any size of work instantly. All screwing dispensed with. Economy of time saves first cost in six months.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| No. **1J**— | Width of Jaws | 9 | inches, | opens | 12 | inches | ..... | each | $6.00 |
| " **0J**— | " | " | 7½ | " | " | 6 | " | (Amateurs)..... | " | 5.35 |

Jaws drilled to receive wood facings.

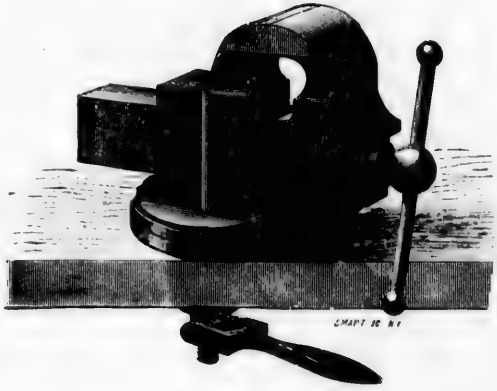
# SIMPSON STATIONARY BENCH VISES



| | Weight. | Jaws Open. | Width of Jaws. | Each. |
|---|---|---|---|---|
| No. **29** | 15½ lbs. | 3¼ inches | 3 inches | $5.35 |
| " **30** | 26 " | 4 " | 3½ " | 7.30 |
| " **31** | 57 " | 5 " | 4 " | 9.00 |
| " **32** | 49 " | 5¾ " | 4½ " | 11.25 |
| " **33** | 64 " | 6½ " | 5 " | 14.10 |
| " **95** | 130 " | 9 " | 6 " | 24.00 |
| " **96** | 190 " | 10½ " | 7 " | 30.00 |

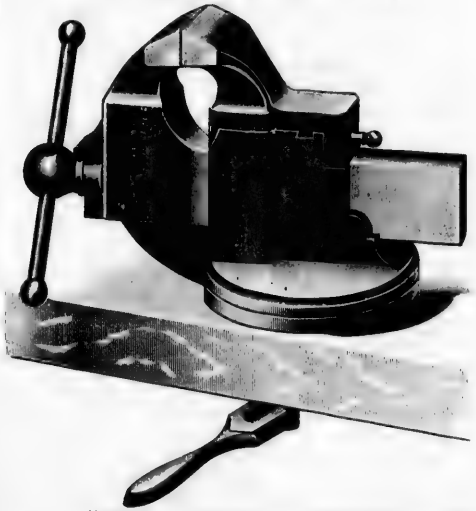
Nos. 95 and 96 have Solid Nut.

## THE SIMPSON SWIVEL BENCH VISES



| | Weight. | Jaws Open. | Width of Jaws. | Each. |
|---|---|---|---|---|
| No. **10** | 6½ lbs | 2 inches | 2¼ inches. | $3.40 |
| " **12** | 17½ " | 3¼ " | 3 " | 6.20 |
| " **13** | 28 " | 4 " | 3½ " | 8.50 |
| " **14** | 44 " | 5 " | 4 " | 11.25 |
| " **15** | 59 " | 5¾ " | 4½ " | 14.65 |

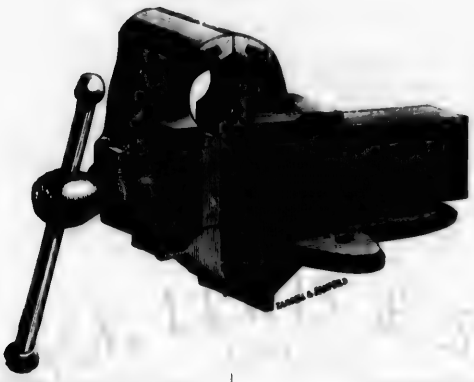
## THE SIMPSON SWIVEL JAW BENCH VISES



| | Weight. | Jaws Open. | Width of Jaws. | Each. |
|---|---|---|---|---|
| No. **36** | 31 lbs. | 4 inches | 3½ inches | $ 9.60 |
| " **37** | 46 " | 5 " | 4 " | 11.85 |
| " **38** | 63 " | 5¾ " | 4½ " | 14.65 |

The Simpson Patent Adjustable Parallel Vises can be instantly opened or closed the full length, without the use of the screw. By slightly raising the front jaw, the screw and nut are disengaged, on removing the hand, the screw and nut again become engaged and a single turn of the screw gives the required grip.

# BENCH VISES



## PARKER'S PATENT PARALLEL BENCH VISES

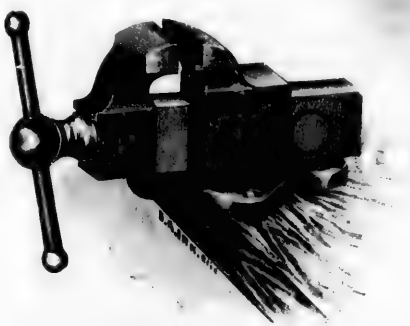
Wrought-Iron Strengthened.

| Nos | 2 | 3 | 4 | 5 |
|---|---|---|---|---|
| Weight | 41½ | 59½ | 83 | 120 lbs. |
| Length of Jaws | 4½ | 4¾ | 5½ | 6¼ in. |
| Price.....each | $13.50 | 17.63 | 24.40 | 36.00 |

## PARKER'S PARALLEL VISES

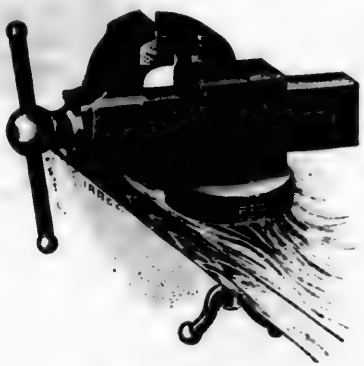
Without Wrought-Iron Strengthener.

| Nos | 100 | 200 |
|---|---|---|
| Weight | 31½ | 41½ lbs. |
| Length of Jaws | 3½ | 4¼ in. |
| Price.....each | $8.15 | 10.75 |



## STATIONARY BASE

| No. | Width Jaw. | Opens. | Weight. | List Price. |
|---|---|---|---|---|
| 5H | 3½ in. | 4 in. | 20 lbs. | $6.85 |
| 15H | 3½ " | 5 " | 30 " | 7.75 |
| 25H | 4 " | 6 " | 45 " | 9.00 |
| 35H | 4½ " | 7 " | 60 " | 10.50 |



## SWIVEL BASE

| No. | Width Jaw. | Opens. | Weight. | List Price. |
|---|---|---|---|---|
| 10H | 3½ in. | 4 in. | 24 lbs. | $8.50 |
| 20H | 3½ " | 5 " | 35 " | 9.35 |
| 30H | 4 " | 6 " | 55 " | 11.00 |

# BENCH VISES

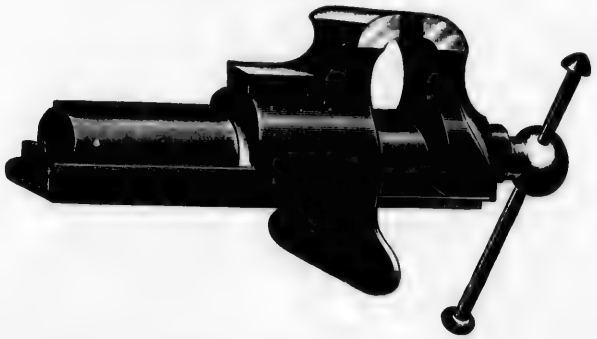
## OVAL SLIDE



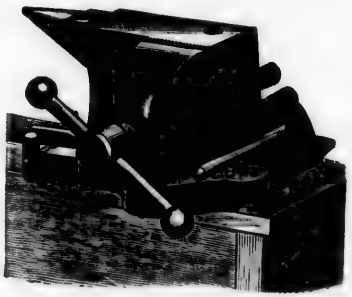
PARKER'S OVAL SLIDE BENCH VISE

No **33**—Weight 22 lbs., Jaws 3½ inches wide ..... each $6.00

## OVAL SLIDE BENCH VISES



No. **72**—Weight 17 lbs., Jaws 3 inches wide, Checked and Tempered ..... each $2.50
" **73**— " 26 " " 3½ " " " " ..... " 3.60

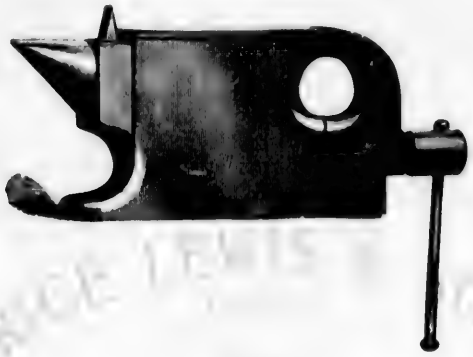


## ALLEN'S COMBINED ANVIL AND VISE

Weight 15 lbs., Parallel Vise opens 2½ inches, Width of Jaw 2 inches, Anvil Face 4¼x2 inches ..... each $2.65

# BENCH VISES

## COMBINED ANVIL AND VISE



No. 1

Weighs 52 lbs., Parallel Vise Opens 4½ inches, Width of Jaws 3½ inches, Anvil Face 3¼ × 8 inches, Height 6½ inches.

No. 1—Complete, with 1¼ inch Hardy ..... each $5.75

---

## DIAMOND ANVIL AND VISE

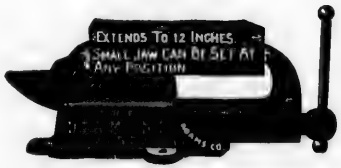
Steel Faced Jaws. Anvil Face Polished.




Clamps Pipe up to 2 inches.



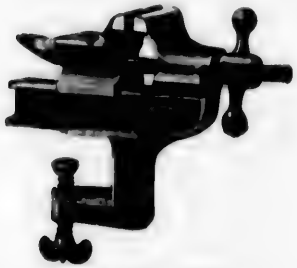

With Drilling Attachment; takes Square Shank Drills.



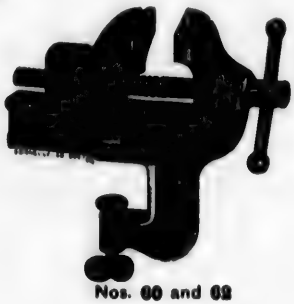

Will extend to hold work up to 12 inches.

Diamond Anvil and Vise, 4 inch Jaws, Anvil Face 7 x 3 inches ..... each $3.75
" " " " with Drill Attachment ..... " 5.05

# BENCH VISES

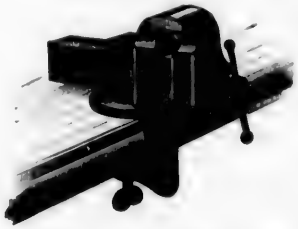


THE LITTLE GEM



Nos. 60 and 62

| | | | |
|---|---|---|---|
| No. **50** | The Little Gem, 1½ inch Jaws, opens 1⅛ inches | each | $0.40 |
| " **60** | Amateur Vise, 1¼ " " 1⅞ " | " | 0.75 |
| " **62** | " " 2 " " 2¼ " | " | 1.50 |

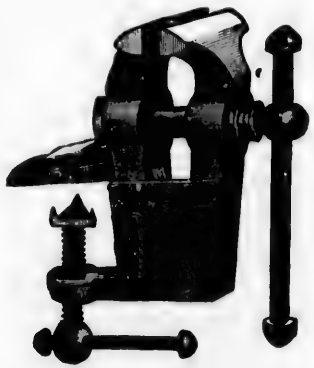


THE SIMPSON JEWELLERS' CLAMP VISES

| | | | |
|---|---|---|---|
| No. **0** | Weight 1½ pounds, 1¼ inch Jaws, opens 1¼ inches | each | $1.40 |
| " **1** | " 2½ " 1½ " " 1¾ " | " | 2.00 |
| " **2** | " 5½ " 2½ " " 2 " | " | 3.10 |



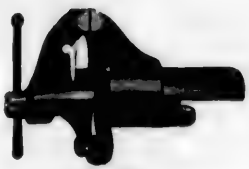
Nos. 2½ to 4½



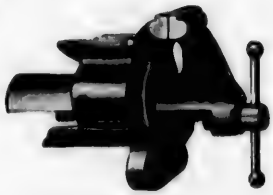
No. 710

| | | | |
|---|---|---|---|
| No. **1½** | –Without Anvil, 1 inch Jaws, opens 1½ inches | each | $0.30 |
| " **2½** | —Weight 1½ pounds, 1½ inch Jaws, opens 1⅞ inches | " | 0.35 |
| " **2⅞** | " 2⅞ " 1⅞ " " 2 " | " | 0.65 |
| " **3½** | " 4½ " 2 " " 2¼ " Jaws and Anvil Face Chill Hardened | " | 1.00 |
| " **4½** | " 9½ " 2½ " " 2⅝ " " " " " | " | 1.60 |
| " **710** | –German Wrought Bench Vises, weights 3½ to 4½ pounds | " | 1.50 |
| " **4744** | " " " 1 pound, similar to No. **710** | " | 0.40 |
| " **4744** | " " " ¾ " " " **710** | " | 0.30 |

# BENCH VISES



No. 1P

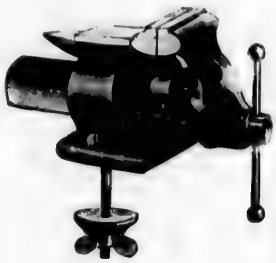


Nos. 2 to 5P

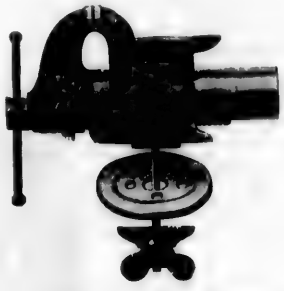
Japanned: Jaws, Anvil and Horn Ground and Polished.

| | | | |
|---|---|---|---|
| No. 1P | Amateur Vise, 1 inch Jaws, opens 1¼ inches | each | $0.20 |
| " 2P | Anvil Vises, weight 1⅞ lbs., 1½ inch Jaws, opens 1¾ inches | " | 0.30 |
| " 2½P | " " " 2½ " 1⅞ " " " 2 " | " | 0.55 |
| " 3P | " " " 4 " 2 " " " 2¼ " | " | 0.80 |
| " 4P | " " " 9 " 2½ " " " 2⅞ " | " | 1.35 |
| " 5P | " " " 9 " 2½ " " " 2¾ " | " | 1.75 |

Nos. 3P and 4P have Jaws and Anvil Chill Hardened. No. 5P Chilled and Hardened Anvil.



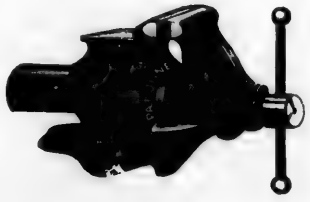
No. 10P with Slotted Base.



No. 20P with Swivel Base.

| | | | |
|---|---|---|---|
| No. 10P | Weight 11 pounds, 3 inch Jaws, opens 3½ inches | each | $2.10 |
| " 20P | " 10 " 2½ " " " 3½ " | " | 2.10 |

No. 10P has Chilled Jaws and Anvil. No. 20P Checked and Tempered Steel Jaws, Chill-Hardened Anvil.



Nos. 24, 29 and 34P



Nos. 25 and 30P

| | | | |
|---|---|---|---|
| No. 24P | Weight 18 pounds, 3 inch Steel Jaws, Checked and Tempered | each | $3.50 |
| " 29P | " 25 " 3½ " " " " " | " | 5.50 |
| " 34P | " 35 " 4 " " " " " | " | 7.00 |
| " 25P | " 20 " 3 " " " " " | " | 4.00 |
| " 30P | " 30 " 3½ " " " " " | " | 6.00 |

# SAW VISES



Nos. 1 and 100



No. 103




No. 104

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No. | 1 | —Japanned, | 8¾ | inch | Jaws, | Polished | Face | per dozen $ 7.05 |
| " | 100 | — " | 9½ | " | " | " | " | " 7.15 |
| " | 103 | — " | 9½ | " | " | " | " | with Bench Clamp and Cam Adjustment, for holding Vise at any angle per dozen 10.50 |
| " | 104 | — " | 9½ | " | Planed Jaws, with Bench Clamp and Lever Adjustment, for holding Vise at any angle per dozen 11.25 | | | |



## COMBINATION HAND VISE

With plate for use as a Bench Vise when desired.
Made from cast steel throughout.

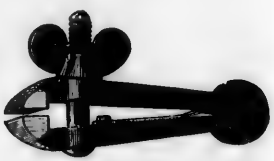
Price ..... per dozen $5.25



## HAND VISES



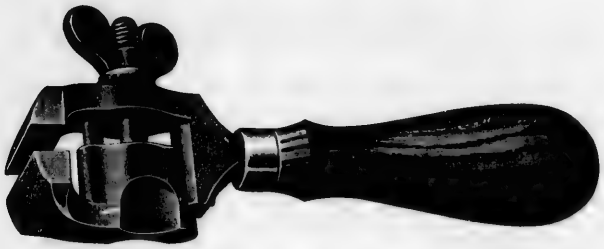
No. 1231



No. 1230

| Size | 3 | 3½ | 4 | 4½ inch. |
|---|---|---|---|---|
| No. 1231—Handled per dozen | $12.35 | 12.85 | 13.35 | ..... |
| " 1230—Without Handle " | ..... | ..... | 10.25 | 10.75 |

## BOSS HAND VISE



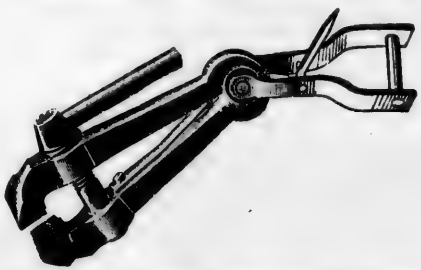
No. 2—Jaws 1¼ inch wide, opens ⅞ inch. Hardened Steel Jaws, Polished ..... per dozen $11.25

## ALFORD HAND VISE



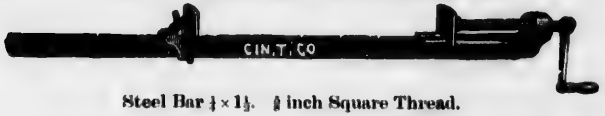
No. 1—Jaws 1¼ inch wide, opens 1⅛ inch. Complete with Tools ..... per dozen 34.05

## TELEGRAPH OR LINEMAN'S VISES



No. 19—Jaws 1⅛ inch wide, opens ⅝ inch, length 5 inches, with Buckle for 1½ inch Strap..... per dozen 17.50

# CARPENTERS' CLAMPS



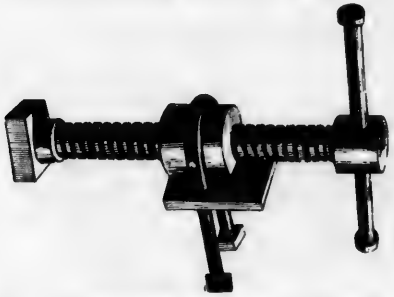

Steel Bar ¾ × 1½. ⅝ inch Square Thread.

| Nos | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| Opens | 2½ | 3 | 4 | 5 feet. |
| Per pair | $5.65 | 6.00 | 6.75 | 7.50 |



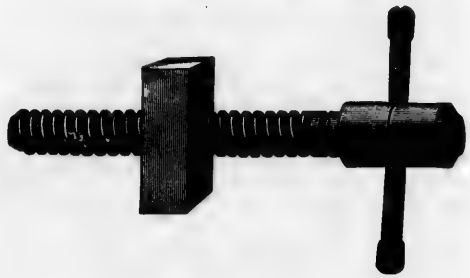
No. **6**—Length 3 ft., Maple Bar 1¼ × 1½. Mall, Thumb Screws, Ball and Socket Joint.....per pair $1.50
" **7**— " 4 ft. " 1¼ × 1½ " " " " " ..... " 1.70

## CARPENTERS' CRAMP SCREWS



No. **11**—1 inch diameter, Single Bolt ...per dozen $15.35
" **12**—1 " " Double " ... " 20.40

## WOOD BENCH SCREWS



Beach, 2½ inch diameter .....per dozen $4.00

## IRON BENCH SCREWS

Double Threads, 14 inches long, Cast Iron Heads and Nuts, Japanned, Wood Handles.

Wrought Iron, 1 inch diameter.....per dozen $6.00
" " 1⅛ " " ..... " 6.75
" " 1¼ " " ..... " 7.50

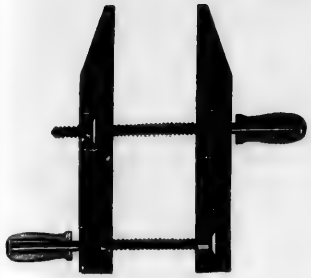


## CABINET MAKERS' BENCHES

No. **1**—20 inches wide, 4 ft. 6 inches long, 32 inches high, Hardwood Frame, Maple Top—with Front and Tail Vise and Holes for Stops ....each $13.00

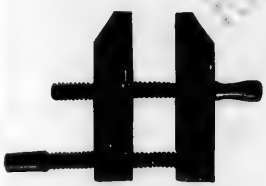
# HAND SCREWS

## WROUGHT IRON SCREWS WITH METAL BEARINGS



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Length of Jaw | 6 | 8 | 10 | 12 | 14 | 16 | inch. |
| Jaws Open | 5½ | 6½ | 7½ | 8½ | 9½ | 10½ | " |
| Diameter of Screw | 7/16 | 7/16 | 7/16 | ½ | ½ | 9/16 | " |
| Size of Jaw | 1¼ × 1⅛ | 1¼ × 1½ | 1⅜ × 1⅜ | 1⅜ × 1¾ | 1⅜ × 2 | 1⅞ × 2½ | " |
| Price, per dozen | $6.20 | 6.20 | 6.20 | 7.35 | 8.50 | 10.25 | |

## HARD MAPLE, SECOND GROWTH HICKORY SPINDLES



| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Nos. | 1 | 1½ | 2 | 3 | 4 | 5 | 6 | 8 | |
| Length of Jaw. | 7 | 8½ | 10 | 12 | 12 | 14 | 14 | 16 | inch. |
| Jaws Open | 4 | 5 | 6½ | 6½ | 8½ | 8 | 10 | 10½ | " |
| Diam. of Screw | ½ | ⅝ | ⅝ | ⅝ | ⅝ | ⅝ | ⅝ | 1⅛ | " |
| Size of Jaw | 1⅛ × 1¼ | 1⅜ × 1½ | 1⅜ × 1⅝ | 1⅜ × 1⅞ | 1⅜ × 1⅞ | 2 × 2 | 2 × 2 | 2¼ × 2¼ | " |
| Price, per doz. | $2.80 | 3.45 | 4.40 | 5.00 | 5.65 | 6.25 | 6.90 | 8.15 | |

## MALLEABLE IRON SCREW CLAMPS

### WITH WROUGHT IRON SCREW, SWIVEL HEAD



| | | | | | |
|---|---|---|---|---|---|
| Size | 3 | 4 | 5 | 6 | inch. |
| Per dozen | $2.00 | 4.20 | 5.00 | 6.50 | |

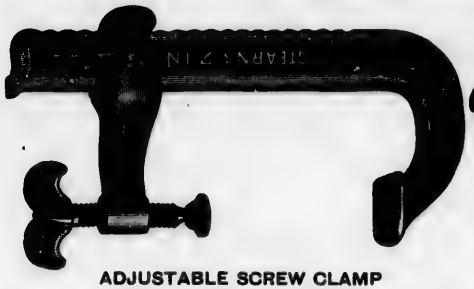
| | | | | | |
|---|---|---|---|---|---|
| Size | 7 | 8 | 9 | 10 | inch. |
| Per dozen | $7.80 | 9.00 | 10.00 | 11.00 | |

## COE'S PATENT ADJUSTABLE SCREW CLAMPS



| | | | | |
|---|---|---|---|---|
| Size | 4 | 6 | 8 | inch. |
| Per dozen | $11 00 | 16.50 | 22.00 | |

# STEARNS' ADJUSTABLE CLAMPS





**ADJUSTABLE SCREW CLAMP**

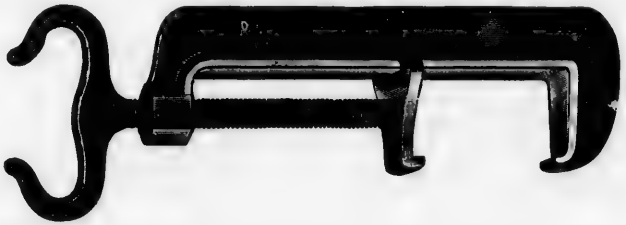
| Size | 3 | 5 | 7 | 9 | 12 | 16 | inch. |
|---|---|---|---|---|---|---|---|
| Per doz. | $5.60 | 9.10 | 12.60 | 14.70 | 21.00 | 28.00 | |

**ADJUSTABLE CORNER CLAMP**

| Size | 6 | 9 | inch. |
|---|---|---|---|
| Per doz. | $11.20 | 16.80 | |

Packed half-dozen in a box.

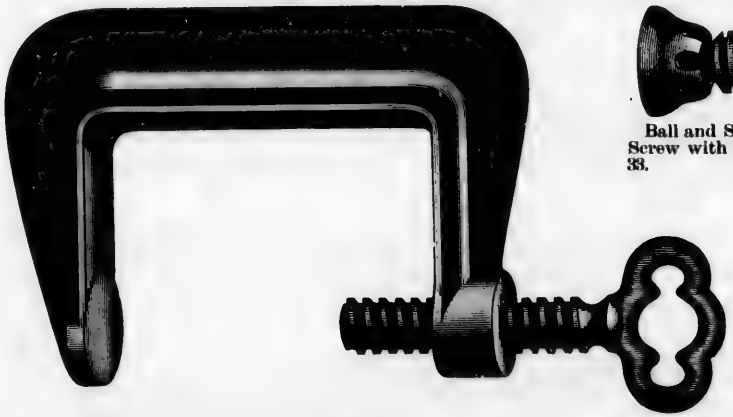
## GAME TRAP CLAMPS



No. 5—Opens to 4 inches ..... per dozen $ 9.00
" 6— " 5¾ " ..... " 15.00

These Clamps are specially adapted for setting large bear traps.

## QUILT FRAME CLAMPS





Ball and Socket Head Screw with Nos. 32 and 33.

No. 1

No. 1—Japanned, opens 2¼ inches, Plain Head Screw ..... per dozen $0.65
" 32— " " 2¼ " Ball and Socket Head Screw ..... " 0.95
" 33— " " 3 " " " " ..... " 1.25

Packed one dozen in a box.

LAMP

9 inch.
16.80

per dozen $ 9.00
" 15.00

Socket Head
Nos. 32 and

per dozen $0.65
" 0.95
" 1.25

# QUILT FRAME CLAMPS



No. 4—FULL SIZE

No. 3—Novelty, Japanned, same size as No. 4, but without Swivel End ..... per doz. $1.15
" 4— " " with Swivel End ..... " 1.45

Packed one dozen in a box.

## CHEESE PRESS SCREWS



Heavy Square Thread, three to the inch. Nut, Flange and Base Japanned. 22 inches over all, 1⅞ diameter.

Each ..... $3.75

## CIDER PRESS SCREWS



Wrought Screw, Cast Nut, 20 × 1½ inches.

Each ..... $2.25

# BLACKSMITHS' ANVILS

## SOLID STEEL ANVILS




Approximate Weights and Dimensions.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Face Measure | 7⅞ × 2½ | 8½ × 3 | 10 × 3 | 10½ × 3½ | 13 × 4 | 13½ × 4 | 16½ × 4½ | 19 × 4½ | 23 × 5½ inch |
| Horn, Full Length | 5½ | 6 | 6¾ | 8 | 10 | 9½ | 11 | 13 | 13 " |
| Full Height | 6 | 7 | 8 | 9 | 10 | 10 | 11 | 14 | 15½ " |
| Weight about | 27 | 41 | 55 | 78 | 136 | 145 | 175 | 292 | 425 lbs. |

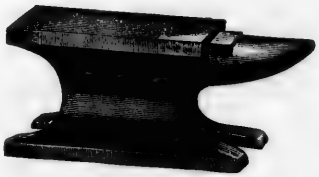
~~Peter Wright~~ Patent Solid Anvils ..... per lb.
Brooks' ..... "
Boker's ..... "

## BENCH ANVILS




The face of this Anvil is one solid piece of tool steel thoroughly welded to the body of the Anvil; it is then accurately ground and tempered. The horn is untempered cast steel.

| Nos | 00 | 0 | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|
| Weight | 5 | 10 | 15 | 20 | 30 | 40 | 50lbs |
| Each | $2.50 | 3.45 | 4.00 | 5.00 | 5.65 | 6.50 | 7.50 |



CHILLED AND POLISHED FACE

No. 1—Weight 12 lbs., Face 3 × 6 in ..... each $1.20
" 2— " 35 " " 4 × 10 in ..... " 3.50

# LeCOUNT'S PATENT TOOLS

## IMPROVED STEEL DOG

With Hardened Steel Screws turned in the Lathe.




**PRICES**

| | | |
|---|---|---|
| No. 1 | ⅜ in. | $0.35 |
| " 2 | ½ " | 0.35 |
| " 3 | ⅝ " | 0.50 |
| " 4 | 1 " | 0.60 |
| " 5 | 1¼ " | 0.75 |
| " 6 | 1½ " | 0.85 |
| " 7 | 1¾ " | 1.00 |
| " 8 | 2 " | 1.10 |
| Small Set of 8 Dogs, from ⅜ to 2 inches | | 5.50 |
| No. 9 | 2½ in. | 1.40 |
| " 10 | 3 " | 1.50 |
| " 11 | 3½ " | 1.70 |
| " 12 | 4 " | 1.90 |
| Set of 12, from ⅜ to 4 inches | | 12.00 |

## NEW STEEL DOG

With Steel Screws, Lathe Made and Hardened.

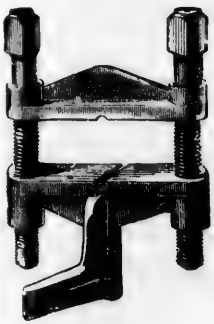



This Dog is very heavy, and is warranted not to break with any work.

**PRICES**

| | | |
|---|---|---|
| No. 1 | ⅜ in. | $0.40 |
| " 2 | ½ " | 0.40 |
| " 4 | ¾ " | 0.60 |
| " 6 | 1 " | 0.70 |
| " 8 | 1¼ " | 0.80 |
| " 10 | 1½ " | 0.95 |
| " 11 | 1¾ " | 1.10 |
| " 12 | 2 " | 1.20 |
| Small Set of 8 Dogs, from ⅜ to 2 inches | | 6.15 |
| No. 14 | 2½ in. | 1.45 |
| " 15 | 3 " | 1.60 |
| " 16 | 3½ " | 1.80 |
| " 17 | 4 " | 2.10 |
| Set of 12, from ⅜ to 4 inches | | 11.10 |

## PATENT CLAMP DOG



Used for finished work and for many other purposes.

They are well made, and of four sizes, taking anything from close to sizes given.

Made of Malleable Iron.

| | | |
|---|---|---|
| No. 1 | —Opens 1 inch | $1.40 |
| " 2 | — " 1½ " | 1.45 |
| " 3 | — " 2 " | 1.80 |
| " 4 | — " 3 " | 2.20 |
| Set of four, $6.85 | | |

## STEEL DOG WRENCH



Fitting Screw Heads from ⅜ to ¾ in. square.

Will answer for both Dogs and Tool Post.

It is finished and hardened.

Price ..... $1.05

## ADJUSTABLE PLANER BLOCKS.

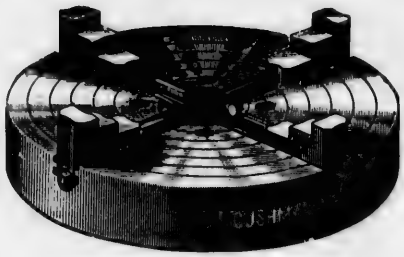




| | | |
|---|---|---|
| No. 1—3 to 4 inches | | each $2.00 |
| " 2—4 to 5¾ " | | " 2.20 |
| " 3—5⅜ to 7¾ " | | " 2.60 |
| " 4—7¾ to 11 " | | " 3.50 |
| No. 1S—1¼ to 1½ inches | | each $0.45 |
| " 2S—1½ to 2 " | | " 0.50 |
| " 3S—2 to 2¾ " | | " 0.60 |
| " 4S—2¾ to 3¼ " | | " 0.75 |
| " 5S—3¼ to 5¼ " | | " 0.95 |

# CUSHMAN'S INDEPENDENT CHUCK

**FOUR JAWS, REVERSIBLE**



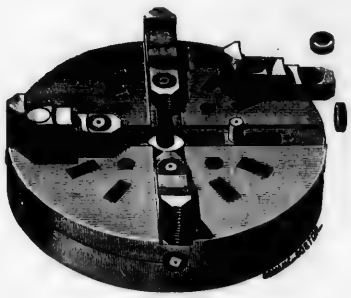


The jaws of these Chucks can, in a moment's time, be run out and reversed, a feature seldom found in other chucks of this kind. The screw is made with a long bearing at each end, and should the square end become broken or worn, it can be reversed and the other end fitted to the key. The jaws and screws are made of steel and the bearings are accurately fitted. A key-wrench made of bar steel and four bolts for attaching to face-plate are furnished with each Chuck.

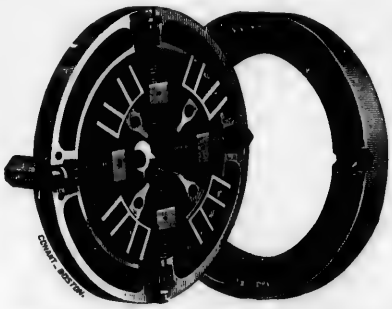
| Diameter..... inches | 8 | 9 | 10 | 12 | 14 | 16 | 18 | 20 | 24 | 26 |
|---|---|---|---|---|---|---|---|---|---|---|
| Diameter of Hole..... " | 1⅞ | 1⅞ | 2 | 2¼ | 3 | 3 | 4 | 4 | 4¾ | 4¾ |
| Diameter of Face-Plate..... " | 4¾ | 4¾ | 4¾ | 6⅛ | 6⅛ | 6⅛ | 7⅛ | 7⅛ | 9½ | 9½ |
| Price..... | $22.00 | 24.00 | 26.00 | 30.00 | 34.00 | 38.00 | 44.00 | 50.00 | 65.00 | 75.00 |

## WESTCOTT'S PATENT GEARED COMBINATION LATHE CHUCK

**INDEPENDENT, UNIVERSAL, ECCENTRIC. JAWS REVERSIBLE**



Front view of Chuck, showing manner of reversing the Jaws.



Inside view of Four-Jaw Chuck, showing the Screw and Pinions, the nut under the Jaw and the Gear which is loose in the Back Shell.

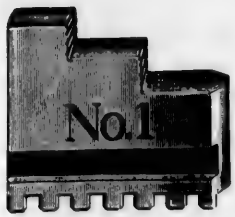
The following points of superiority are claimed:

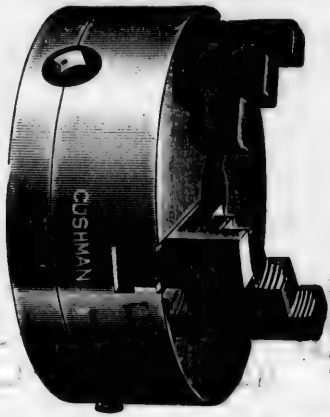
**Strongest Grip, Greatest Capacity, Greatest Durability, Easiest Adjustment, Cheapness**

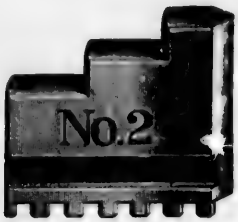
| Diameter..... | 5 | 7½ | 10⅛ | 13 | 15¼ | 18 | 21 | 24 inch. |
|---|---|---|---|---|---|---|---|---|
| Will hold inside of Jaws..... | 5 | 7½ | 10⅜ | 13⅛ | 17 | 19¾ | 25½ | 28 " |
| Three Jaws..... | $24.00 | 26.00 | 34.00 | 44.00 | 52.00 | 62.00 | 80.00 | 100.00 |
| Four Jaws..... | ..... | 32.00 | 42.00 | 56.00 | 64.00 | 75.00 | 95.00 | 120.00 |

# CUSHMAN'S IMPROVED GEARED SCROLL CHUCK

**UNIVERSAL—THREE PINIONS**



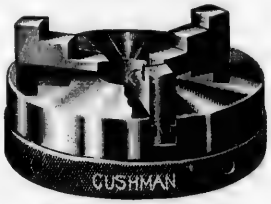

No. 1 Jaws are the style most generally used and are designed for ordinary lathe work. They can be furnished with all except the Drill Chucks. With this style of Jaws, pieces as large as the Chuck itself may be held.

No. 2 Jaws are designed for drilling, holding rods and for fine work. With this style of Jaws, rings, etc., can be held by the inside, while the outside is being finished. This style of Jaw is also furnished with all Chucks when so ordered, except the Drill Chucks.

The working parts are made of Forged Steel, the Jaws are ground true after they are hardened. When ordering be particular to state style of Jaws wanted. Chucks with No. 1 Jaws usually kept in stock.

| Diameter | 2½ | 3 | 4 | 5 | 6 | 9 | 12 | 15 | inch. |
|---|---|---|---|---|---|---|---|---|---|
| Price, with 1 set of Jaws | $ 9.40 | 12.50 | 16.00 | 18.75 | 22.50 | 30.00 | 37.50 | 50.00 | |
| " " 2 " | $11.25 | 15.00 | 18.00 | 22.50 | 27.00 | 36.00 | 45.00 | 60.00 | |
| Separate Jaws per set | $ 2.85 | 3.75 | 4.70 | 5.65 | 6.90 | 11.25 | 15.00 | 18.75 | |

## AMATEURS' LEVER CHUCKS




These Chucks are designed for light work. They are, on account of being strongly made of first-class material, suitable for any work within their capacity. For small lathes, there is nothing better made, and the price is very low for superior work.

| Diameter | 2 | 3 | 4 | 5 | inch. |
|---|---|---|---|---|---|
| Price, with 1 set of Jaws | $5.65 | 6.90 | 8.15 | 9.40 | |
| " " 2 " | 7.20 | 8.45 | 10.00 | 11.25 | |
| Separate Jaws per set | 2.35 | 2.35 | 2.85 | 2.85 | |

Chucks with 2 sets of Jaws usually kept in stock.

## IMPROVED TWO-JAW CHUCKS

**With Slip Jaws.**




Round Body.




Box Body.

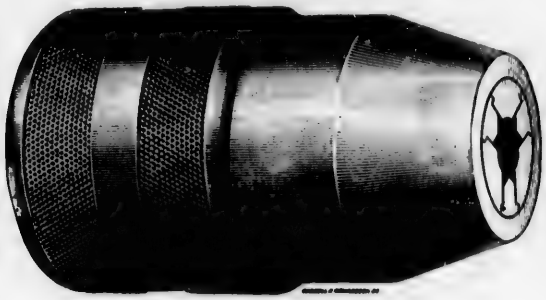
They are furnished in two styles, as shown above and in table below. Those with round body are made to bolt to a face-plate, while those with box body are to be threaded to fit the spindle.

The 4½ inch, 6 inch, and 7 inch round body with connected jaws have the screw at the side, giving an unobstructed hole through the Chuck.

| Size | 4½ | 6 | 7 | 9 | 12 | 15 | inch. |
|---|---|---|---|---|---|---|---|
| Jaws take | 2 | 2½ | 3 | 4 | 6 | 8 | " |
| Round Body each | $22.40 | 28.00 | 33.60 | 42.00 | 50.40 | ..... | |
| Box Body " | ..... | ..... | 33.60 | 42.00 | 50.40 | 58.80 | |

# DRILL CHUCKS

## STETSON'S PATENT IMPROVED



Full Size No. 2

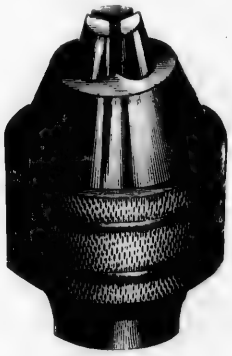
**No. 2**—Holding 0 to $\frac{3}{8}$ inch ..... each $16.15

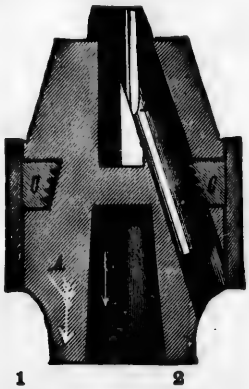
## BEACH PATENT DRILL CHUCK



| Nos | 0 | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|
| Holds Drills | 0 to $\frac{1}{4}$ | 0 to $\frac{1}{4}$ | 0 to $\frac{3}{8}$ | $\frac{1}{16}$ to $\frac{1}{2}$ | $\frac{3}{16}$ to $\frac{5}{8}$ |
| Each | $14.60 | 14.60 | 15.50 | 18.25 | 20.00 |

## ALMOND DRILL CHUCK





| Nos | 1 | 2 | 3 |
|---|---|---|---|
| Holds Drills | 0 to $\frac{5}{16}$ | 0 to $\frac{5}{16}$ | 0 to $\frac{1}{2}$ |
| Each | $6.00 | 6.90 | 11.25 |

## TRUMP CHUCK



### SELF-CENTERING, THREE JAWS

**No. 1**—For Drills $\frac{1}{8}$ and under, Shank $2 \times \frac{1}{8}$ .. each $2.60
" **2**— " " $\frac{1}{4}$ " " $2\frac{1}{4} \times \frac{3}{8}$ .. " 4.30

Extra Jaws ..... per pair 0.90

# DRILL CHUCKS

## WESTCOTT'S "LITTLE GIANT" IMPROVED





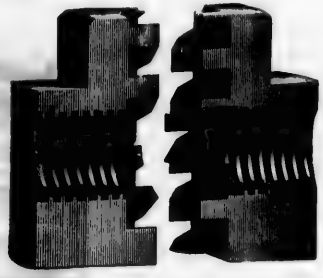
Screw for "Little Giant" Drill Chuck.

This Chuck has no projections. The Jaws and Screws are all within the body.
The Jaws are of the best tool steel, carefully hardened.
All parts duplicated.

| Nos. | | 00 | 0 | 1 | 2 |
|---|---|---|---|---|---|
| Holds Drills | | 0 to $\frac{1}{4}$ | 0 to $\frac{1}{2}$ | 0 to $\frac{3}{4}$ | 0 to 1 |
| Each | | $9.65 | 11.00 | 12.40 | 13.75 |
| Screws | each | $1.90 | 1.90 | 1.90 | 2.10 |
| Jaws | per pair | $3.80 | 4.30 | 4.75 | 5.25 |

## "ONEIDA" DRILL CHUCKS





Cut showing the Diagonal Tongued Jaws.

| | | |
|---|---|---|
| No. 0 —Holds Drills 0 to $\frac{1}{4}$ | each | $ 9.65 |
| " 1— " " 0 to $\frac{1}{2}$ | " | 11.00 |
| Screws | " | 2.00 |
| Jaws | per pair | 4 50 |

## CUSHMAN'S DRILL CHUCKS

### KEY DRILL CHUCK




| | | |
|---|---|---|
| No. 1 holds from 0 to $\frac{1}{2}$ inch | price | $8.15 |
| " 2 " " $\frac{1}{4}$ to $\frac{3}{8}$ " | " | 10.00 |

### THE HARTFORD DRILL CHUCK




No. 2—Diameter $2\frac{3}{4}$ inches.

| | | |
|---|---|---|
| No. 0 holds from 0 to $\frac{1}{4}$ inch | price | $7.50 |
| " 1 " " 0 to $\frac{1}{2}$ " | " | 8.75 |
| " 2 " " 0 to $\frac{3}{4}$ " | " | 10.00 |

# DRILL CHUCKS

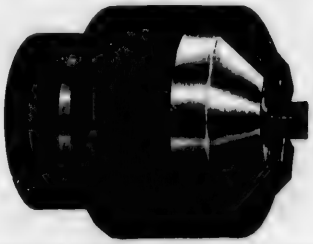
## PEERLESS DRILL CHUCK



Holds Drills 0 to ¼ inch, Self-tightening, three Jaws.

Price ..... each $5.00

## THE ACME DRILL CHUCK



Holds from 0 to ¼ inch, Self-tightening, three Jaws.

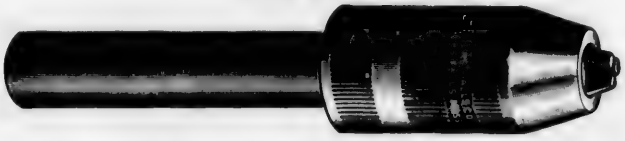
Price ..... each $5.00

## BARBER'S LATHE CHUCK



No. 2—With Shank, ⅞ inch diameter × 4 inches, Forged Steel Jaws ..... each $2.50

## STAR CHUCK



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No. 1— | With Shank, | ½ | inch diameter | × 1½ | inches, | holds Drills 0 to | 7/16 | inch ..... each $1.65 |
| " 2— | " | ⅝ | " | × 3½ | " | " 0 to | ½ | " ..... " 2.50 |
| " 3— | " | ¾ | " | × 4½ | " | " 0 to | ⅝ | " ..... " 5.00 |

## PATENT PLUG ARBOR FOR DRILL CHUCKS



These Arbors are left with one end blank for fitting to machine and with the other end already fitted to our Chucks. By turning the nut, the Chuck may be easily forced off the Arbor or the Arbor drawn from the Spindle.

No. 2 fits the 2-inch Amateur Geared, the 2-inch Amateur Lever, the 2-inch Hartford Lever, the No. 1 and No. 0 Hartford Drill, the No. 1 and 2 Key Drill, the Peerless and the Acme Chucks.

The No. 3 fits the No. 2 Hartford only.

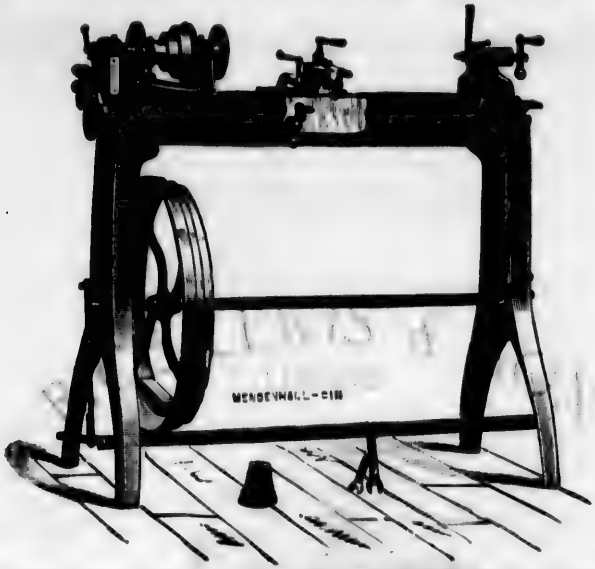
No. 2 ..... $1.25
" 3 ..... 1.90

## BELL CENTERING PUNCH



Capacity is up to 1½ inch ..... each $1.25

# 8-INCH SCREW-CUTTING FOOT-POWER LATHE



This Lathe swings 9 inches over bed, and is built to take 20, 30 or 36 inches between centers.

This Lathe has balanced cone pulley for 1-inch belt. Head-stock spindle has front bearing $1\frac{3}{16}$ inches in diameter and $1\frac{3}{4}$ inches long, running in gun metal boxes, provision being made to take up the wear. These Lathes are built with a $\frac{3}{4}$-inch hollow spindle, and are furnished with either **foot motion** or **countershaft**, as may be desired.

We furnish with this Lathe a face-plate, wrenches, two pointed centers, and gear to cut all standard threads from 3 to 40, and these may be arranged to cut an unlimited number of threads either right or left-hand.

This Lathe is built with bench-legs; also reverse head and compound rest when desired.

## PRICE

| Swing. | Bet. Centers. | Length of Bed. | Weight. | Each. |
|---|---|---|---|---|
| 8 inches | 20 inches | 36 inches | 325 lbs. | $110.50 |
| 8 " | 30 " | 46 " | 345 " | 127.50 |
| 8 " | 36 " | 52 " | 365 " | 144.50 |

Reverse Head, $17.00 extra. Compound Rest, $17.00 extra.

### Rule for Stud or Intermediate Gear.

For arranging the stud gear 2 to 1 and 1 to 2: 2 to 1 is arranged as follows: 80 of 80-30 meshes with 30 of 60-30 and also with spindle gear, and 60 of 60-30 meshes with screw gear. For 1 to 2, or slow feed, 80 of 80-30 meshes with spindle gear, and also with 60 of 60-30, and 30 of 60-30 meshes with screw gear.

# 10-INCH SCREW-CUTTING FOOT-POWER LATHE

The 10-inch Lathe, similar to the above, will swing $10\frac{1}{2}$ inches over the bed. It has balanced three-speed cone pulley for $1\frac{1}{2}$-inch belt. Head-stock spindle has front bearing $1\frac{7}{16}$ inches in diameter and $2\frac{1}{4}$ inches long, and there is a $\frac{1}{2}$-inch hole through spindle. The spindle is run in gun metal boxes, provision being made to take up the wear. These Lathes are built with either **foot motion** or **countershaft**. We furnish with this Lathe, face-plate, steady-rest, wrenches, 2 pointed centers, and gear to cut all standard threads, right or left hand, from 5 to 36.

## PRICE

| Swing. | Bet. Centers. | Length of Bed. | Weight. | Each. |
|---|---|---|---|---|
| 10 inches | 24 inches | 4 feet | 475 lbs. | $181.50 |
| 10 " | 36 " | 5 " | 525 " | 198.00 |
| 10 " | 48 " | 6 " | 575 " | 214.50 |

Compound Rest, $21.45 extra.

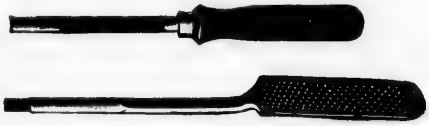
### Rule for Stud or Intermediate Gear.

For arranging the stud gear 2 to 1 and 1 to 2: 2 to 1 is arranged as follows: 60 of 60-24 meshes with 30 of 60-30, and also with spindle gear, and 60 of 60-30 meshes with screw gear. For 1 to 2, or slow feed, 60 of 60-24 meshes with spindle gear, and also with 60 of 60-30, and 30 of 60-30 meshes with screw gear.

# HORSE TOOTH RASPS



No. 1 —Plain Horse Tooth Rasp, 20 inch, Handled ..... per doz. $13.50
" 1P—Plated " " " " ..... " 17.85



No. 2 —Plain Horse Tooth Rasps, Jointed, Handled ..... per doz. $24.30
" 2P—Plated " " " " ..... " 28.65



Cut showing Adjustable Section.

No. 3—Adjustable, Plated, Horse Tooth Rasp with one section each ..... per doz. $20.25
Sections, Half File and Half Rasp for above ..... " 4.05

## VETERINARY RIFFLERS

Length 14 inches over all.

No. 5—Plain, one end Flat File, other end Rasp, Concave ..... per doz. $12.15

## EMERY WHEEL DRESSERS



No. 3—Steel Bushing and Arbor ..... per doz. $15.00
Extra Wheels and Washers ..... per doz. sets 8.40

## FILE CLEANERS



No. 1




No. 2

No. 1—Mounted, Card 4 x 2 inch ..... per doz. $2.00
" 2— " 4 x 1½ " ..... " 3.10

per doz. $13.50
" 17.85

per doz. $24.30
" 28.65

per doz. $20.25
" 4.05

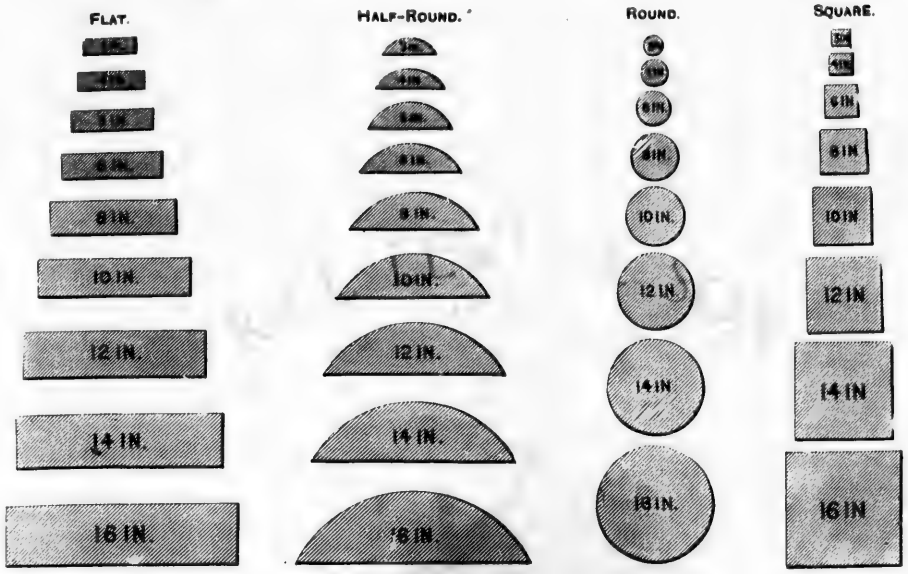
per doz. $12.15

per doz. $15.00
oz. sets 8.40

per doz. $2.00
" 3.10

# FILES

**Sections, showing dimensions of Files in most general use.**

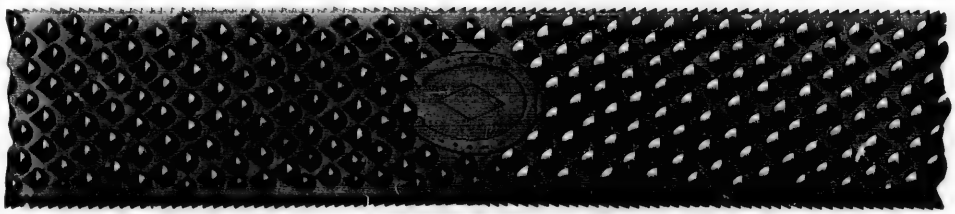



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**Sections, showing cuts of Files and Rasps.**



BASTARD. SECOND CUT. SMOOTH. DEAD SMOOTH. MILL-FILE.



HORSE RASP

# FILES



No. 1—3½ inch. FLAT BASTARD



No. 2—3½ inch. FLAT SECOND CUT



No. 3—3½ inch. FLAT SMOOTH



No. 4—3½ inch. HAND BASTARD



No. 5—3½ inch. HAND SECOND CUT



No. 6—3½ inch. HAND SMOOTH



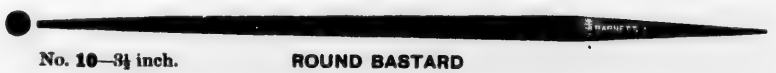
No. 7—3½ inch. HALF-ROUND BASTARD



No. 8—3½ inch. HALF-ROUND SECOND CUT



No. 9—3½ inch. HALF-ROUND SMOOTH



No. 10—3½ inch. ROUND BASTARD



No. 11—3½ inch. ROUND SECOND CUT



No. 12—3½ inch. ROUND SMOOTH

# FILES



No. 13—3½ inch. SQUARE BASTARD



No. 14—3½ inch. SQUARE SECOND CUT



No. 15—3½ inch. SQUARE SMOOTH



No. 16—3½ inch. TAPER SAW FILE



No. 17—3½ inch. SLIM TAPER SAW FILE



No. 18—3½ inch. DOUBLE ENDED TAPER SAW FILE



No. 19—3½ inch. BLUNT SAW FILE



No. 20—3½ inch. BAND SAW FILE



No. 21—3½ inch. PIT SAW FILE



No. 22—3½ inch. PILLAR BASTARD



No. 23—3½ inch. KNIFE FILE



No. 24—3½ inch. WOOD RASP, HALF-ROUND



No. 25—3½ inch. CABINET RASP, HALF-ROUND




# BLACK DIAMOND FILES

## PRICE LIST OF FILES AND RASPS

ADOPTED BY THE FILE MANUFACTURERS OF THE UNITED STATES AND CANADA, TO TAKE EFFECT ON AND AFTER JULY 1ST, 1897.

| INCH. | MILL AND ROUND. 2d Cut | FLAT. 2d Cut | INCH. | SQUARE. 2d Cut | HAND AND PILLAR. 2d Cut | INCH. | HLF. RD. & THREE SQ. 2d Cut | WARDING. 2d Cut |
|---|---|---|---|---|---|---|---|---|
| 4 | 2.60 | 3.20 | 4 | 3.40 | 3.20 | 4 | 4.20 | 3.60 |
| 5 | 2.80 | 3.40 | 5 | 3.60 | 3.50 | 5 | 4.50 | 3.90 |
| 6 | 3.00 | 3.60 | 6 | 3.80 | 3.80 | 6 | 5.00 | 4.40 |
| 7 | 3.40 | 4.10 | 7 | 4.30 | 4.30 | 7 | 5.70 | 5.10 |
| 8 | 3.70 | 4.50 | 8 | 4.70 | 4.70 | 8 | 6.20 | 5.60 |
| 9 | 4.30 | 5.40 | 9 | 5.70 | 5.80 | 9 | 7 00 | 6.70 |
| 10 | 4.80 | 6.00 | 10 | 6.30 | 6.50 | 10 | 7.50 | 7.50 |
| 11 | 5.80 | 7.30 | 11 | 7.70 | 8.10 | 11 | 8.80 | 9.40 |
| 12 | 6.40 | 8.20 | 12 | 8.60 | 9.20 | 12 | 9.70 | 10.60 |
| 13 | 8.00 | 10.10 | 13 | 10.60 | 11.30 | 13 | 11.50 | 12.90 |
| 14 | 9.10 | 11.40 | 14 | 12.00 | 12.70 | 14 | 12.70 | 14.50 |
| 15 | 11.10 | 13.60 | 15 | 14.30 | 15.30 | 15 | 15.20 | |
| 16 | 12.50 | 15.00 | 16 | 15.80 | 17.00 | 16 | 16.80 | |
| 17 | 15.10 | 18.00 | 17 | 18.90 | 20.20 | 17 | 20.10 | |
| 18 | 16.90 | 20.00 | 18 | 21.00 | 22.30 | 18 | 22.30 | |
| 19 | 20 50 | 23.60 | 19 | 24.80 | 26.40 | 19 | 26.60 | |
| 20 | 22.90 | 26.30 | 20 | 27.30 | 29.20 | 20 | 29.40 | |

**Mill Blunt, Obl. Cut,** adv. 2 in.
**Mill Dbl. Cut,** " 1 "
**Mill Narrow Point,** " 1 "

**Cant (Blunt) Dbl. Cut** advance 2 in.

**Square Blunt,** advance 1 in.

**Slotting (Blt.)** adv. 2 in.
**Cotter Blunt or Taper** advance 2 in.

**Ginsaw,** take Bastard price.
**Crossing,** . . . adv. 2 in.
**Tumbler,** . . . . " 2 "
**Feather Edge (Blunt)** " 2 "
**High Back** }
**Half Round** } . . . " 2 "

**Stavesaw.**
8 inch, . $7.00

**Stavesaw Improved.**
6 inch, . $4.80
7 " . 5.50
8 " . 6.00
9 " . 7.20
10 " . 8.00
12 " . 11.50

| INCH. | MILL. ONE ROUND EDGE. 2d Cut | MILL. TWO ROUND EDGES. 2d Cut | INCH. | TAPER. Double Cut | SLIM TAPER. | BANDSAW. BLUNT & TAPER. Regul'r |
|---|---|---|---|---|---|---|
| 4 | 2.90 | 3.30 | 3 | 1.90 | | 1.90 |
| 5 | 3.20 | 3.50 | 3½ | 1.90 | | 1.90 |
| 6 | 3.40 | 3.80 | 4 | 2.10 | | 2.10 |
| 7 | 3.90 | 4.30 | 4½ | 2.30 | | 2.30 |
| 8 | 4.20 | 4.60 | 5 | 2.60 | | 2.60 |
| 9 | 4.90 | 5.40 | 5½ | 3.00 | | 3.00 |
| 10 | 5.40 | 6.00 | 6 | 3.50 | | 3.50 |
| 11 | 6.50 | 7.30 | 7 | 4.20 | | 4.20 |
| 12 | 7.20 | 8.00 | 8 | 5.00 | | 5.00 |
| 13 | 9.00 | 10.00 | 9 | 6.00 | | 6.00 |
| 14 | 10.20 | 11.40 | 10 | 7.20 | | 7.20 |
| 15 | 12.50 | 13.90 | 11 | 9.00 | | 9.00 |
| 16 | 14.10 | 15.60 | 12 | 11.00 | | 11.00 |
| 17 | 17.00 | 18.90 | 13 | 13.00 | | 13.00 |
| 18 | 19.00 | 21.10 | 14 | 15.30 | | 15.30 |

| INCH. | PIT SAW. | CANT SAW. Single Cut | CROSS CUT | HOOK TOOTH. | Planer Knife. Single Cut | Inserted Tooth or |
|---|---|---|---|---|---|---|
| 4 | | 3.20 | | | ..... | |
| 5 | | 3.50 | | | ..... | |
| 6 | | 4.00 | | | ..... | |
| 7 | | 4.50 | | | ..... | |
| 8 | | 4.80 | | | 4.80 | |
| 9 | | 5.80 | | | ..... | |
| 10 | | 6.50 | | | 6.40 | |
| 11 | | 7.70 | | | ..... | |
| 12 | | 8.50 | | | 9.00 | |

**DOUBLE-ENDED TAPER.**

| 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|
| 2.60 | 2.60 | 2.90 | 3.20 | 3.70 |

| INCH. | HORSE RASPS. Beveled and ¼ Rasp | FILE RASPS. Hf. Rnd | INCH. | WOOD FILES. Hf. Rnd | WOOD RASPS. Hf. Rnd | INCH. | SHOE RASPS. Hf Rnd | INCH. | KNIFE. 2d Cut |
|---|---|---|---|---|---|---|---|---|---|
| 6 | ..... | 6.00 | 6 | 4.50 | 6.00 | 6 | 6.00 | 4 | 4.50 |
| 7 | ..... | 6.90 | 7 | 5.20 | 6.90 | 7 | 6.90 | 5 | 5.00 |
| 8 | ..... | 7.50 | 8 | 5.60 | 7.50 | 8 | 7.50 | 6 | 5.60 |
| 9 | ..... | 9.10 | 9 | 6.30 | 9.10 | 9 | 9.10 | 7 | 6.30 |
| 10 | 8.00 | 10.20 | 10 | 6.80 | 10.20 | 10 | 10.20 | 8 | 6.80 |
| 11 | 9.60 | 12.50 | 11 | 8.00 | 12.50 | 11 | 12.50 | 9 | 7.90 |
| 12 | 10.70 | 14.00 | 12 | 8.80 | 14.00 | 12 | 14.00 | 10 | 8.60 |
| 13 | 12.70 | 16.70 | 13 | 10.50 | 16.70 | 13 | 16.70 | 11 | 10.20 |
| 14 | 15.00 | 18.50 | 14 | 11.60 | 18.50 | 14 | 18.50 | 12 | 11.30 |
| 15 | 17.60 | 22.10 | 15 | 13.80 | 22.10 | | LAST MAKERS' RASPS. | 13 | 13.40 |
| 16 | 20.50 | 24.50 | 16 | 15.30 | 24.50 | | One in. adv. on Cabinet Rasp. | 14 | 14.80 |

**Sizes below 4 inches,** not extended, take 4 inch price.
**Half inches** not specified, take next higher full inch price.
**Dead Smooth,** double the price of Bastard Cut.
**One Round Edge,** advance 12½ per cent.
**Cuts not specified,** made upon regular blanks, advance one inch on respective kinds and nearest cut.
**Irregular Goods:** all lengths above those listed, and files varying from standard sizes, to be classed as irregular and subject to special prices.

**Blunt Files** not specified, advance one inch on respective kinds and cuts.
**Single or Float Cut** not specified, on regular shapes take Double Cut price.
**Equalings (Bellied),** advance two inches on respective kinds and cuts.
**Two Round Edges,** advance 25 per cent.

# FILES



## PLANER KNIFE FILE

(For Prices see File List, page 90)

## JOWITT'S FILE LIST

Per dozen.

| SIZE IN INCHES | 4 | 41/2 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Flat, Half-Round, Round, Square and Mill Saw Bastard | $1.15 | 1.25 | 1.40 | 1.70 | 2.10 | 2.60 | 3.00 | 3.60 | 4.35 | 5 20 | 6.00 | 7.20 | 8.70 | 10.35 | 14.50 |
| Flat and Half-Round, Second-cut and Second-cut Mill Saw | 1.35 | 1.45 | 1.60 | 2.00 | 2.40 | 2.90 | 3.25 | 4.10 | 4.80 | 5.75 | 6.50 | 8.00 | 9.40 | 11.30 | 15.60 |
| Flat and Half-Round, Round and Square Smooth, Cabinet Files and Rasps | 1.65 | 1.80 | 2.00 | 2.30 | 2 80 | 3 30 | 3.75 | 4.60 | 5.55 | 6.40 | 7.20 | 8.70 | 10.10 | 12.50 | 17.80 |
| Flat and Half-Round Dead Smooth | 2.50 | 2.70 | 3.00 | 3.50 | 4.20 | 4.80 | 5.70 | 6.85 | 8.40 | 9.60 | 10.80 | 13.00 | 15.15 | 18.75 | 26.65 |
| Hand Bastard and Warding | 1.25 | 1.40 | 1.50 | 2.10 | 2.55 | 2.90 | 3.60 | 4.35 | 5.20 | 6.00 | 7.20 | 8.70 | 10.35 | 12.00 | 16.35 |
| Hand Smooth | 1.80 | 2.00 | 2 15 | 2.75 | 3.25 | 3.75 | 4.60 | 5.55 | 6.40 | 7.20 | 8.70 | 10.10 | 12.50 | 13.20 | 20.20 |
| Knife Files, Bastard | 2.00 | 2.30 | 2.55 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Half-Round Wood Rasps | ..... | ..... | ..... | ..... | ..... | 2.60 | 3.00 | 3.60 | 4.35 | 5.20 | 6.00 | 7.20 | ..... | ..... | ..... |
| Round Wood Rasps | ..... | ..... | ..... | ..... | ..... | ..... | 3.25 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Improved Shoe Rasps | ..... | ..... | ..... | ..... | ..... | 2.65 | 3.25 | 4.00 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Horse Rasps | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 7.20 | 8.70 | 10.35 | ..... |
| Tanged Horse Rasps | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 10.35 | 12.00 | 14.50 | ..... |

| SIZE IN INCHES | 31/2 | 4 | 41/2 | 5 | 51/2 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Taper Saw Files | 0 95 | 1.10 | 1.20 | 1.35 | 1.55 | 1.80 | 2.30 | 2.90 | 3.75 | 4.70 | 5.75 | 7.00 |
| Band Saw Files | 1.55 | 1.80 | 2.05 | 2.30 | 2.55 | 2.90 | ..... | ..... | ..... | ..... | ..... | ..... |
| Pit or Frame Saw Files | ..... | ..... | 1.40 | 1.55 | 1.80 | 2.06 | 2.55 | 3.25 | 3.85 | 4.80 | 6.00 | 7.20 |

**EXTRAS**—All Parallel Files to advance 1 inch on their respective descriptions. Equalling and Parallel Cotter Files Bastard to advance 1 inch on Flat Bastard prices. Mill Saw Files with 2 round edges to advance ½ inch.

## "STUBS" FILE LIST

Per dozen.

| SIZE IN INCHES | 3 | 3 1/2 | 4 | 4 1/2 | 5 | 5 1/2 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|---|
| Saw Files, Taper or Blunt | 1.25 | 1.35 | 1.55 | 1.75 | 2.00 | 2.20 | 2.45 | 3.10 | 4.40 |
| Square and Taper Flat Bastard | 1.50 | 1.65 | 1.75 | 2.15 | 2.25 | ..... | 3.25 | 4.00 | 4.50 |
| Square and Taper Flat Smooth | 1.75 | 2.00 | 2.25 | 2.75 | 3.00 | ..... | 4.00 | 5.00 | 6.00 |
| Taper Flat, Super | 2.75 | 3.00 | 3.25 | 3.75 | 4.00 | ..... | 5.00 | 6.00 | 7.00 |
| Half-Round Bastard | 1.75 | 2.00 | 2.50 | 2.75 | 3.00 | ..... | 4.00 | 4.50 | 5.00 |
| Half-Round Smooth | 2.00 | 2.40 | 2.75 | 3.15 | 3.50 | ..... | 4.50 | 5.50 | 6.00 |
| Half-Round Super | 2.75 | 3.00 | 3.50 | 4.00 | 4.50 | ..... | 5 50 | 7.00 | 8.00 |
| Round Bastard | 1.50 | 1.65 | 1.75 | 2.00 | 2.25 | ..... | 2.75 | 3.50 | 4.50 |
| Round Smooth | 2.00 | 2.25 | 2.50 | 2.75 | 3.00 | ..... | 4.00 | 5.00 | 6 00 |
| Pottance Bastard | 1.65 | 1.65 | 1.75 | 2.15 | 2.25 | ..... | 3.25 | 4.00 | 5.00 |
| Pottance Smooth | 1.90 | 1.90 | 2.25 | 2.75 | 3.00 | ..... | 4.00 | 5.00 | 6.00 |
| Pottance Super | 2.75 | 2.75 | 3.25 | 3.75 | 4.00 | ..... | 5.00 | 6.00 | 7.50 |
| Equalling Smooth | 2.00 | 2.00 | 2.25 | 2.75 | 3.00 | ..... | ..... | ..... | ..... |
| Knife Bastard | 1.65 | 1.65 | 1.75 | 2.15 | 2.25 | ..... | ..... | ..... | ..... |
| Slitting " | ..... | ..... | 3.00 | 3.25 | ..... | ..... | ..... | ..... | ..... |
| Warding " | ..... | ..... | 1.75 | ..... | 2.00 | ..... | 3.00 | 3.75 | ..... |
| Cant Files | ..... | ..... | ..... | ..... | 3.50 | ..... | ..... | ..... | ..... |

## F. L. GROBET'S SWISS FILE LIST

Per dozen.

| SIZE IN INCHES | | 2 1/2 | 3 | 3 1/2 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|---|
| Hand, Flat, One Safe Edge | Nos. 2 and 4 | ..... | 2.20 | ..... | 2.50 | 2.90 | 3.70 | 4.00 | ..... |
| " " " " " | " 5 " 6 | ..... | 2.20 | ..... | 2.50 | 3.75 | 4.00 | 4.00 | ..... |
| Pillar, Two Safe Edges | " 0 to 4 | ..... | 1.50 | ..... | 1.90 | 2.80 | 3.00 | 3.30 | 5.00 |
| " " " " | " 5 and 6 | ..... | 1.50 | ..... | 2.00 | 2.90 | ..... | ..... | ..... |
| Pillar, Narrow, Two Safe Edges | " 2 to 4 | ..... | 1.50 | ..... | 1.90 | 2.80 | ..... | ..... | ..... |
| Taper Flat, or Entering, One Safe Edge | " 3 " 5 | ..... | 1.50 | ..... | 2.10 | 2.80 | ..... | ..... | ..... |
| Barrette, Tapering, Safe Back | " 3 " 5 | ..... | 1.50 | 1.70 | 2.10 | ..... | ..... | ..... | ..... |
| Half-Round, Tapering | " 3 " 5 | ..... | 1.50 | 1.70 | 2.25 | ..... | ..... | ..... | ..... |
| Crossing, Tapering, Oval | " 3 " 6 | ..... | 1.50 | 1.70 | 2.25 | 3.00 | ..... | ..... | ..... |
| Round, Tapering | " 1 " 6 | .75 | .75 | .75 | 1.10 | ..... | ..... | ..... | ..... |
| Square " | " 3 " 6 | 1.00 | 1.00 | 1.00 | 1.30 | ..... | ..... | ..... | ..... |
| Triangular " | " 2 " 5 | 1.80 | 1.80 | 1.80 | 2.25 | 2.80 | ..... | ..... | ..... |

# POLISHING PASTE AND SUPPLIES




Metal Polish for Cleaning and Burnishing Copper, Brass, Nickel, etc.

## PUTZ POMADE

| GENUINE ADALBERT VOGT & CO. Helmet Brand. | | | | | BOKER'S | | | | |
|---|---|---|---|---|---|---|---|---|---|
| In tins | **1** oz. | **3** oz. | ½ lb. | **1** lb. | | **1** oz. | **3** oz. | ½ lb. | **1** lb. |
| Per dozen | $0.55 | 1.25 | 4.25 | 8.50 | Per dozen | $0.30 | 0.70 | 3.00 | 6.00 |

## PUTZ EXTRACT

| | | | | |
|---|---|---|---|---|
| In tins | Medium | Large | **1** lb. | **5** lb. |
| Per dozen | $0.95 | 1.40 | 6.80 | 30.20 |

## BURNISHINE PASTE

| | | | | |
|---|---|---|---|---|
| In tins | **No. 1** | ½ lb. | **1** lb. | **5** lb. |
| Per dozen | $0.85 | 2.50 | 4.40 | 20.00 |

## TRIPOLINE "MATCHLESS" METAL POLISH

| | ½ lb. | **1** lb. Tins. | | **5** lb. | **10** lb. | **25** lb. Pails. |
|---|---|---|---|---|---|---|
| Per dozen | $3.50 | 7.00 | Per pail | $2.50 | 4.00 | 9.00 |




## OAKEY'S WELLINGTON KNIFE POLISH

In Canisters.

| Nos | **1** | **2** | **6** | **12** |
|---|---|---|---|---|
| Per dozen | $0.45 | 0.85 | 2.65 | 5.20 |

## OAKEY'S PLATE POWDER

Non-Mercurial, Pink, in packages ..... per dozen $2.25

## POLISHING SUPPLIES

For Cutting Down and Polishing Brass and other Metals.

**Powdered American Tripoli**, in barrels of 300 lbs. ..... per lb.
" " " less than barrel ..... "
**Rouge**, in kegs, 140 lbs ..... "
" less than kegs ..... "
**Crocus, No. 1**, in kegs, 140 lbs ..... "
" " less than kegs ..... "
**Crocus, No. 2**, in kegs, 140 lbs ..... "
" " less than kegs ..... "

## PURE TURKEY EMERY

In 7 lb. packages.

**Corn, 54 to 120** ..... 10c. per lb. **Flour** ..... 6c. per lb.

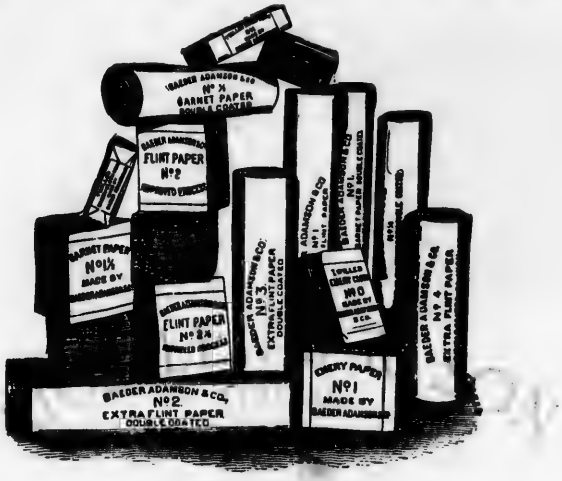
In kegs, about 300 lbs.

Nos. **4** to **46**, inclusive ..... price per 100 lbs.
" **54** to **160** " ..... " "
**Flour** ..... " "

## QUARTZ

**Flint or Quartz, Nos. ½, 1, 1½, 2, 2½** ..... per 100 lbs. $6.75

# SAND, GARNET AND EMERY PAPER AND EMERY CLOTH




## FLINT SAND PAPER

### IN SHEETS

| Nos. | 00 | 0 | ½ | 1 | 1½ | 2 | 2½ | 3 |
|---|---|---|---|---|---|---|---|---|
| Per ream | $4.50 | 4.50 | 4.50 | 4.50 | 4.50 | 5.00 | 5.00 | 5.00 |
| Bundle contains | 5 | 5 | 4 | 3½ | 3 | 2½ | 2 | 1½ reams |

## FLINT SAND PAPER

### IN ROLLS, 50 YARDS LONG

| Nos. | 00 | 0 | ½ | 1 | 1½ | 2 | 2½ | 3 |
|---|---|---|---|---|---|---|---|---|
| 24 inches wide, per roll | $ 5.00 | 5.00 | 5.00 | 5.00 | 5.00 | 5.50 | 6.00 | 6.50 |
| 30 " " | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 | 9.00 | 10.00 | 11.00 |
| 36 " " | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 11.00 | 12.00 | 13.00 |
| 40 " " | 12.00 | 12.00 | 12.00 | 12.00 | 12.00 | 13.00 | 14.00 | 15.00 |

## GARNET PAPER

### IN ROLLS, 50 YARDS LONG

| Nos. | 00 | 0 | ½ | 1 | 1½ | 2 | 2½ | 3 |
|---|---|---|---|---|---|---|---|---|
| 24 inches wide, per roll | $ 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.50 | 7.25 | 8.25 |
| 30 " " | 9.00 | 9.00 | 9.00 | 9.00 | 9.00 | 10.00 | 11.00 | 12.00 |
| 36 " " | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 | 12.00 | 13.00 | 14.00 |
| 40 " " | 13.00 | 13.00 | 13.00 | 13.00 | 13.00 | 14.00 | 15.00 | 16.00 |

## EMERY PAPER

### IN SHEETS

| Nos. | 00 | 0 | ½ | 1 | 1½ | 2 | 2½ | 3 |
|---|---|---|---|---|---|---|---|---|
| Per ream | $6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 7.50 | 9.50 | 11.50 |
| Bundle contains | 4½ | 4 | 3½ | 3 | 2½ | 2 | 1½ | 1½ reams |

## BEST AMERICAN TWILLED EMERY CLOTH

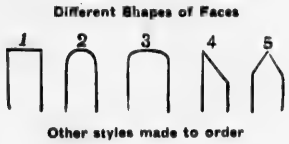
### IN SHEETS

| Nos. | 00 | 0 | ½ | 1 | 1½ | 2 | 2½ | 3 | Crocus |
|---|---|---|---|---|---|---|---|---|---|
| Comparative Nos. of Emery | Flour | 120 | 100 | 80 | 70 | 60 | 54 | 46 | Cloth |
| Per quire | $0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 1.00 | 1.20 | 1.30 | 0.90 |

5 quires in a package.

# EMERY WHEELS





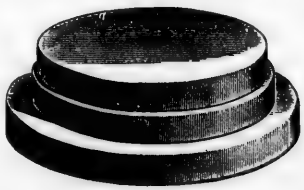

**For all Wheels thinner than ½ inch use list of ½ inch.**

**N.B.—Wheels of any thickness between the dimensions below are listed the same as next size thicker. In ordering wheels give diameter and thickness of wheels and size of mandrel hole, description of work to be done and for what use, viz., wrought or cast iron, steel or brass, etc.**

## REVISED PRICE LIST OF EMERY WHEELS

| Diameter of Wheels in Inches. | THICKNESS OF WHEELS IN INCHES. | | | | | | | | | | | | | | | | No. of Revolutions per Minute |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 | 2 1/4 | 2 1/2 | 2 3/4 | 3 | 3 1/4 | 3 1/2 | 3 3/4 | 4 | | |
| 1 1/2 | $ 0 40 | $ 0 45 | $ 0 50 | $ 0 55 | $ 0 60 | $ 0 65 | $ 0 70 | $ 0 75 | $ 0 80 | $ 0 85 | $ 0 90 | $ 0 95 | $ 1 00 | $ 1 05 | $ 1 10 | | 10000 |
| 2 | 0 50 | 0 55 | 0 60 | 0 65 | 0 70 | 0 75 | 0 80 | 0 85 | 0 90 | 0 95 | 1 00 | 1 05 | 1 10 | 1 15 | 1 20 | | 10000 |
| 2 1/2 | 0 65 | 0 75 | 0 85 | 0 95 | 1 05 | 1 15 | 1 25 | 1 35 | 1 45 | 1 55 | 1 65 | 1 75 | 1 85 | 1 95 | 2 05 | | 8000 |
| 3 | 0 80 | 0 95 | 1 10 | 1 25 | 1 40 | 1 55 | 1 70 | 1 85 | 2 00 | 2 15 | 2 30 | 2 45 | 2 60 | 2 75 | 2 90 | | 7400 |
| 3 1/2 | 0 95 | 1 15 | 1 35 | 1 55 | 1 75 | 1 95 | 2 15 | 2 35 | 2 55 | 2 75 | 2 95 | 3 15 | 3 35 | 3 55 | 3 75 | | 6400 |
| 4 | 1 10 | 1 35 | 1 60 | 1 85 | 2 10 | 2 35 | 2 60 | 2 85 | 3 10 | 3 35 | 3 60 | 3 85 | 4 10 | 4 35 | 4 60 | | 5450 |
| 4 1/2 | 1 25 | 1 55 | 1 85 | 2 15 | 2 45 | 2 75 | 3 05 | 3 35 | 3 65 | 3 95 | 4 25 | 4 55 | 4 85 | 5 15 | 5 40 | | 4900 |
| 5 | 1 40 | 1 80 | 2 20 | 2 60 | 3 00 | 3 40 | 3 80 | 4 20 | 4 60 | 5 00 | 5 40 | 5 80 | 6 20 | 6 60 | 7 00 | | 4400 |
| 6 | 1 75 | 2 40 | 3 00 | 3 70 | 4 35 | 5 00 | 5 65 | 6 25 | 6 80 | 7 45 | 8 10 | 8 75 | 9 40 | 10 00 | 10 50 | | 3600 |
| 7 | 2 15 | 3 00 | 3 85 | 4 70 | 5 55 | 6 40 | 7 25 | 8 10 | 8 90 | 9 70 | 10 50 | 11 30 | 12 10 | 12 90 | 13 70 | | 3150 |
| 8 | 2 60 | 3 60 | 4 60 | 5 60 | 6 60 | 7 60 | 8 60 | 9 60 | 10 60 | 11 60 | 12 60 | 13 60 | 14 60 | 15 60 | 16 60 | | 2750 |
| 9 | 3 10 | 4 35 | 5 60 | 6 75 | 7 50 | 8 75 | 10 00 | 11 25 | 12 50 | 13 75 | 15 00 | 16 25 | 17 50 | 18 75 | 20 00 | | 2450 |
| 10 | 3 60 | 5 10 | 6 60 | 8 00 | 9 50 | 11 00 | 12 40 | 13 75 | 15 25 | 16 75 | 18 15 | 19 50 | 21 00 | 22 25 | 23 75 | | 2200 |
| 12 | 4 00 | 5 75 | 7 35 | 9 00 | 10 70 | 12 25 | 14 00 | 15 70 | 17 40 | 19 00 | 20 70 | 22 25 | 24 00 | 25 75 | 27 40 | | 1850 |
| 14 | 6 25 | 8 45 | 10 65 | 12 90 | 15 10 | 17 40 | 19 50 | 21 80 | 24 00 | 26 30 | 28 60 | 30 75 | 33 00 | 35 40 | 37 50 | | 1600 |
| 16 | 8 00 | 10 85 | 13 70 | 16 50 | 19 40 | 22 25 | 25 00 | 27 90 | 30 75 | 33 50 | 36 40 | 39 25 | 42 00 | 45 00 | 48 00 | | 1400 |
| 18 | 9 50 | 13 25 | 17 00 | 20 75 | 24 50 | 28 25 | 32 00 | 35 75 | 39 50 | 43 25 | 47 00 | 50 75 | 54 50 | 58 00 | 62 00 | | 1250 |
| 20 | 12 00 | 16 00 | 20 50 | 25 00 | 29 00 | 33 50 | 38 00 | 42 50 | 47 00 | 51 50 | 56 00 | 60 50 | 65 00 | 69 50 | 74 00 | | 1100 |
| 22 | 14 50 | 19 00 | 25 00 | 29 87 | 35 50 | 41 12 | 46 75 | 52 00 | 58 00 | 63 50 | 69 25 | 74 00 | 80 50 | 85 00 | 91 75 | | 1000 |
| 24 | 17 00 | 22 00 | 29 00 | 36 00 | 43 00 | 50 00 | 57 00 | 64 00 | 71 00 | 78 00 | 85 00 | 92 00 | 99 00 | 105 00 | 112 00 | | 925 |

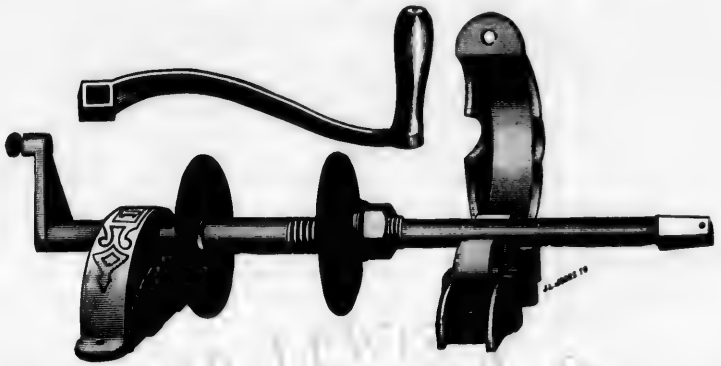
## FELT BUFFING WHEELS



| Size | 6×1 | 8×1 | 8×1½ | 10×1½ | 10×2 | 12×2 inch. |
|---|---|---|---|---|---|---|
| Each | $1.15 | 2.30 | 2.85 | 4.50 | 5.50 | 6.50 |

**Hard, medium or soft grades.**

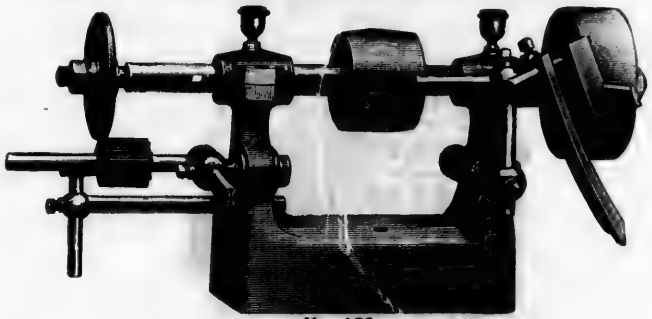
# GRINDSTONE FIXTURES



No. 1—Shaft, 15 inches long ..... per doz. $5.40
" 2— " 17 " ..... " 5.85

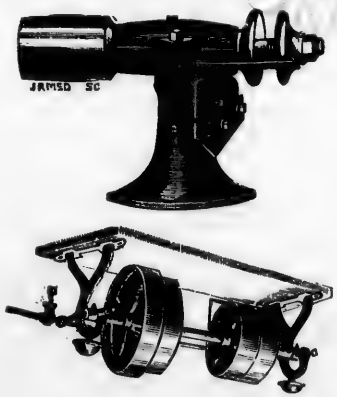
Packed six sets in a case.

## MORSE PATENT TWIST DRILL GRINDING MACHINE
### WITH MILL AND SHELL REAMER GRINDING ATTACHMENT



No. 129

No. 1, for sizes to ¼ in., including Emery Wheel ..... $18.75
" 2, " ⅛ in. to 2 in., with one Emery Wheel, and without Mill Attachment ..... 57.80
" 2, " ⅛ " " 2 " " Mill Attachment and Emery Wheels ..... 81.60




## EMERY WHEEL GRINDERS

No. 1—This cut represents our Single Emery Grinder, for only one wheel, made to swing Emery Wheels from 3 to 9 inches; Steel Mandrel, ½ inch diameter, bearing 5 inches long; Pulley, 3 inches diameter; 3½ inch face; 1½ inch space between collar to allow for Emery Wheel, unless ordered for extra length. Weight complete, with countershaft, 68 lbs. Price ..... $20.50

No. 2—Small Double Emery Grinder for Single Wheel on each side, made to swing Wheels from 2½ to 8 inches; Steel Mandrel, ½ inch diameter; bearing 2½ incnes long; Cone Pulley, 2 and 3 inches diameter, with 1½ inch face. Weight complete, with countershaft, 48 lbs. Price ..... $24.50

# GRINDSTONES



### SIZES USUALLY STOCKED

| | | | | | |
|---|---|---|---|---|---|
| Diameter. | 14 to 16 | 16 to 18 | 18 to 20 | 20 to 22 | 24 to 26 inches. |
| Weights.. | 25 " 35 | 36 " 50 | 51 " 70 | 75 " 90 | 100 " 110 lbs. |
| Face..... | 1½ " 2 | 1¾ " 2½ | 2½ " 3 | 2½ " 3 | 2½ " 3¾ inch. |

### Weight of Grindstones

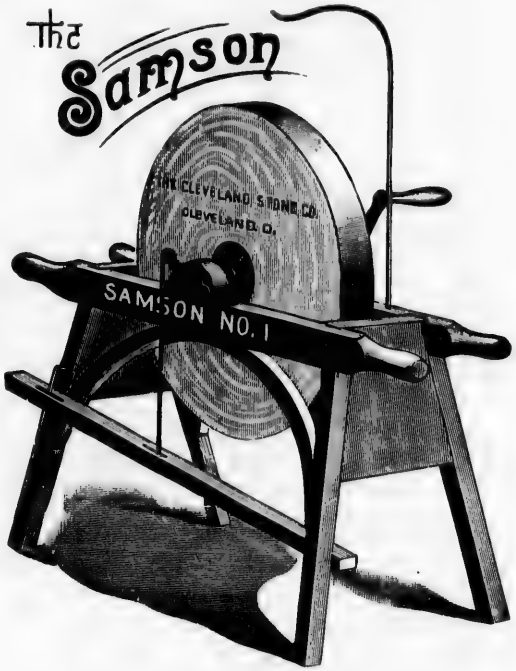
RULE—Square the diameter (in inches); multiply by thickness (in inches); then by .00333; the product will be the weight of the stone in lbs.

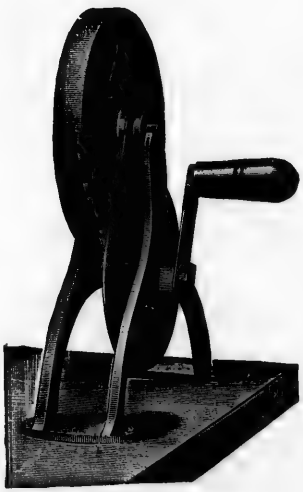
Grindstones, under 200 lbs. ..... $1.15 per 100 lbs.
" 200 to 1000 " ..... 1.90 " " "
" over 1000 lbs. price on application.

## MOUNTED GRINDSTONES

### SAMSON

| Nos..... | 1 | 2 | 3 |
|---|---|---|---|
| Stone weighs... | 100 to 110 | 70 to 80 | 40 to 50 lbs. |
| Each..... | $4.00 | 3.75 | 3.50 |



CCOKE

## KITCHEN GRINDSTONES

### MOUNTED

Iron Frame and Wood Stand.

8 inch Diameter..... per dozen $10.80
9 " " ..... " 12.00

## COOKE EMERY GRINDERS

6×¾ inch Emery Wheel..... per dozen $16.50



KITCHEN GRINDSTONE

# OIL STONES




| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Washita | Oil Stones | No. 1, | assorted sizes, in 10 lb. wooden boxes | | | per lb. | $0.45 |
| " | " | Lily White, | " | " | " | " | 0.70 |
| " | " | Rosy Red, | " | " | " | " | 0.70 |
| " | " | (Green paper), | " | " | " | " | 0.60 |
| Turkey | " | | " | " | " | " | 0.60 |
| Arkansas | " | | " | " | " | " | 2.50 |
| Hindostan | " | | " | " | " | " | 0.10 |

## AXE STONES

| | | | | | |
|---|---|---|---|---|---|
| Washita | Axe Stones, in 5 lb. wooden boxes | | | per lb. | $0.30 |
| Hindostan | " | 25 | " | " | 0.10 |
| Deerlick | " | 5 | " | " | 0.25 |
| Water of Ayr | " | one dozen in a package | | " | 0.12 |




Deerlick Oil Stones, 8×2×¾, in 12 lb. wooden boxes ..... per lb. $0.35



## WASHITA OIL STONES

### MOUNTED

| Size | 8×2 | 7×2 | 6×2 | 5×2 | 4×1½ |
|---|---|---|---|---|---|
| Per dozen | $12.00 | 11.00 | 10.00 | 9.00 | 7.00 |

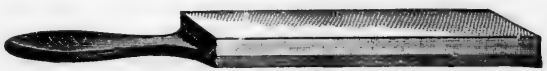
## DEERLICK OIL STONES

### MOUNTED

| Size | 8×2 | 7×2 | 6×2 | 5×2 |
|---|---|---|---|---|
| Per dozen | $10.00 | 8.75 | 7.50 | 4.50 |

## WASHITA OIL STONES

### HANDLED

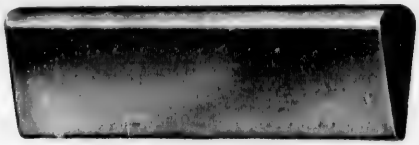


Size, 4½×1, on Mahogany Handles ..... per doz. $4.00

# EMERY OIL STONES

**A combination of Coarse and Fine Emery, quick cutting, and producing a fine edge.**





| Size | 4 × 1¼ | 4 × 1¾ | 5 × 2⅛ inch. |
|---|---|---|---|
| Per dozen | $4.00 | 4.00 | 4.25 |




Style **B**, 3 × 1 × ½ inches.....per doz. **$3.50**




Style **C**, 4 × 1⅛ × ½ inches.....per doz. **$4.00**




Style **D**, 6 × 1⅛ × ¾ inches.....per doz. **$5.75**




Style **E**, 8 × 2 × 1 inches.....per doz. **$9.00**

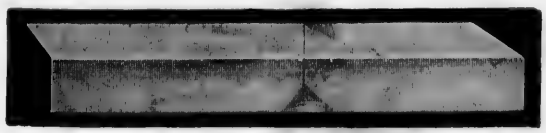



Style **G**, 10 × 3 × 1 inches.....per doz. **$15.00**

# OIL STONES



| | | | | | |
|---|---|---|---|---|---|
| Washita Oil Slips, | No. 1 | in 5 lb. wooden boxes | | per lb. | $0.80 |
| " " | No. 2 | " " | | " | 0.50 |
| " " | Extra | " " | | " | 0.90 |
| " " | Lily White | " " | | " | 1.00 |
| " " | Rosy Red | " " | | " | 1.00 |
| Turkey " | ..... | " " | | " | 1.90 |
| Arkansas " | No. 1 | " " | | " | 4.50 |
| Deerlick " | ..... | " " | | " | 0.55 |
| Hindostan " | ..... | in 10 lb. | " | " | 0.20 |
| Washita Oval Plug Stones, | | | | per doz. | 4.40 |
| " Round Plug Stones, | | | | " | 5.00 |



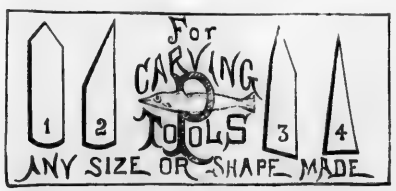
| | | | | | |
|---|---|---|---|---|---|
| Arkansas Flat Pieces, | 3 to 4 | inches long by $\frac{1}{16}$, $\frac{3}{16}$, $\frac{5}{16}$, $\frac{7}{16}$, $\frac{1}{2}$ and $\frac{9}{16}$ inch thick | | per doz. | 4.50 |
| Washita " | 2 to 2½ | " 1 × ½ inch thick | | " | 1.10 |
| " " | 2 to 2½ | " 1 × ½ " | | per lb. | 0.80 |
| Turkey " | 2 to 2½ | " 1 × ¾ " | | per doz. | 1.20 |



Arkansas Knife Pieces, Sharp Edge, 3 to 4 inches long, $\frac{1}{8}$ inch wide, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{7}{32}$, $\frac{1}{2}$ and $\frac{5}{16}$ inch back ... per doz. 6.75



Arkansas Square Pieces, 4 inches long, by $\frac{3}{16}$, $\frac{1}{4}$ and $\frac{3}{32}$ inches ..... per doz. 4.50




## ARKANSAS CARVING TOOL SETS

Per Set of 4 Pieces ..... 1.10

# RAZOR HONES

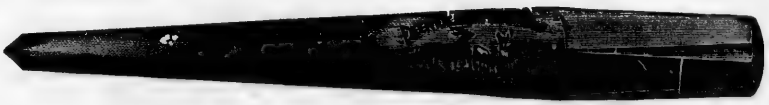



| | | | | |
|---|---|---|---|---|
| Length | | 6 | 7 | 8 inch. |
| No. **1103** | per doz. | $5.00 | 6.85 | 17.75 |
| " **1103½** | " | 3.10 | 4.35 | .... |
| " **44-OC** | " | .... | 5.15 | .... |

" **44**—Hone Face Stones or Rubbers, about 4½ × 1 inch. ..... per doz. $0.70
" **44C**— " " " " " 4½ × 1 " ..... " 1.25
" **100**— " " " " " 4½ × 1 " ..... " 0.55

Half-dozen in a package.

## DEERLICK TABLE STONES



**12** to **13** inches long ..... per doz. 2.75

## EMERY KNIFE SHARPENERS



No. **10**—Emery Knife Sharpeners, 12 inches long ..... per doz. 1.95
" **11**— " " " 15 " " ..... " 2.25
" **12**— " " " 18 " " ..... " 3.40

## EMERY "MOWER'S FRIEND"



No. **8**—Mower's Friend, Wire Strengthened ..... per doz. 2.75

## EMERY SCYTHE STONES



No. **7**—Emery Scythe Stones, Wire Strengthened ..... per doz. 2.75

Three dozen in a box.

# SCYTHE STONES




Genuine Indian Pond, Red End No. 1, Round Edge, 9½ inches long, smooth finish.....per gross $7.00
" " " " " 2 " " 9½ " " " " ..... " 5.00
Western Red End, Flat Stone..... " " 9½ " " coarse grit ..... ..... " 5.50
Canada " " ..... " " 9½ " " " ..... " 4.00

Quarter gross in a box.




Star, Oval Shape, 9½ inches long, sand-bed finish, medium grit.....per gross $6.50
Bay Chaleur..... 9½ " " medium grit..... " 6.00

Quarter gross in a box.




Quinnebog, Full Oval Shape, 9½ inches long, coarse or fine finish.....per gross $8.50
Acme..... " " " 9½ " " " " " " ..... " 8.00

Quarter gross in a box.




English Round, 12 inches long, Best Berea Grit, coarse.....per hundred $14.00

Twenty-five in a box.

# LIQUID FISH GLUE




**For Carriage, Cabinet Makers, Carpenters and Mechanics generally.**

| | | |
|---|---|---|
| In Bottles, Small Family | per gross | $10.00 |
| " " Large " | " | 16.00 |
| " Tin Cans, Half-Gills | " | 18.00 |
| " " " Gills | " | 24.00 |

In gross and half-gross cases.

| | | |
|---|---|---|
| Tin Cans, Half-Pints | per doz. | 3.00 |
| " " Pints | " | 5.00 |
| " " Quarts | " | 9.00 |
| " " Half-Gallons | " | 15.00 |
| " " Gallons | " | 27.00 |

Half-Pints, two dozen in a case, Pints and Quarts, one dozen; Half-Gallons and Gallons, half dozen.




### GENUINE LEPAGE'S LIQUID GLUE

In gallon tins ..... per doz. $36.45

## GLUE

| | | |
|---|---|---|
| No. HHB—White, Broken Sheet, suitable for Furniture Work and Wood Work generally | per lb. | 0.18 |
| " 41365— " " " " " Emery " " " " " | " | 0.15 |
| " HFB—Amber, " " " " Paper Box and Bag Manufacturers and Sizing | " | 0.14 |
| " FDB— " " " " " Cheap Paper Boxes and Bags and Cheap Sizing | " | 0.12½ |
| " HBB— " " " " " Brush Manufacturers, Cheap Sizing and Compo. Work | " | 0.10½ |

### WATERPROOF MARINE GLUE

For Caulking Decks, Top, Sides and Bottom of Yachts, etc.

In 14 and 28 lb. boxes ..... per lb. 0.50



## GLUE POTS

| Nos. | 8-0 | 6-0 | 4-0 | 2-0 | 0 | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|---|---|---|
| Capacity.. | ⅛ | ¼ | ½ | 1 | 1½ | 1½ | 2 | 2½ | 3 | 3½ pints. |
| Per dozen | $3.00 | 4.30 | 5.70 | 7.15 | 7.85 | 9.00 | 11.10 | 13.60 | 16.40 | 19.30 |

Handy Family Glue Pot with Lid ..... per doz. $4.50

## HARD RUBBER CEMENT

For Cementing Rubber to Wood, Iron, etc.

| | | |
|---|---|---|
| 1 lb. Packages | per lb. | 0.50 |
| 1/8 lb. " | per doz. | 1.80 |

## RUBBER SOLUTION

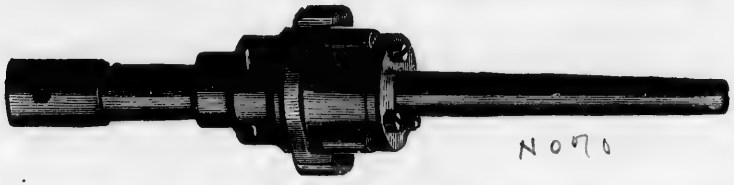
For Repairing and Patching Sheet Rubber.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| In tubes | 3½ × ¾ | 6 × 1½ | In tins | ½ pt. | 1 pt. | 1 qt. | 1 gal. |
| Per dozen | $0.75 | 3.00 | Per tin | $0.20 | 0.40 | 0.80 | 2.25 |

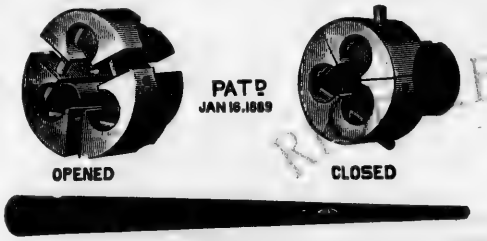
## BORAX

| | | |
|---|---|---|
| Refined, Crystals | per lb. | 0.09½ |
| " Powdered | " | 0.10 |

# "DUDGEON" PATTERN TUBE EXPANDERS



| Size | 1 | 1¼ | 1½ | 1¾ | 2 | 2¼ | 2½ | 2¾ | 3 | 3¼ | 3½ | 4 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Price.....each | $5.00 | 5.00 | 5.25 | 5.25 | 5.60 | 5.60 | 6.30 | 7.00 | 7.80 | 8.75 | 10.00 | 12.00 | |




## EXTENSION AND SELF-FEEDING TUBE EXPANDERS

| | | | |
|---|---|---|---|
| No. 1 | expands 1½ to 1¾ inch | each | $15.50 |
| " 1 1/2 | " 1¾ to 2¼ " | " | 18.00 |
| " 2 | " 2 to 3 " | " | 22.00 |
| " 2 1/2 | " 2½ to 3½ " | " | 25.00 |
| " 3 A | " 3½ to 4 " | " | 25.00 |
| " 3 | " 3½ to 5 " | " | 33.00 |

## TUBE CLEANERS



### INGALS' TUBE CLEANER

| For Flues | 2 | 2¼ | 2½ | 2¾ | 3 | 3½ | 4 | inch |
|---|---|---|---|---|---|---|---|---|
| Price.....each | $2.00 | 2.25 | 2.50 | 2.75 | 3.00 | 3.50 | 4.00 | |



### NATIONAL TUBE CLEANER

| For Flues | 1½ | 1¾ | 2 | 2¼ | 2½ | 2¾ | 3 | 3½ | 4 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|
| Price .....each | $2.00 | 2.00 | 2.00 | 2.25 | 2.50 | 2.75 | 3.00 | 3.50 | 4.00 | |



### ENGINEERS' FAVORITE TUBE CLEANER

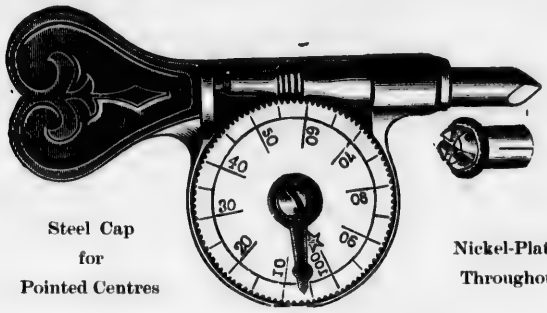
| For Flues.. | 2 | 2¼ | 2½ | 2¾ | 3 | 3½ | 4 | inch. |
|---|---|---|---|---|---|---|---|---|
| Price..each | $2.00 | 2.25 | 2.5 | 2.75 | 3.00 | 3.50 | 4.00 | |



### STEEL WIRE FLUE CLEANER

| For Flues..... | 1¼ | 1½ | 2 | 2½ | 3 | 4 | inch. |
|---|---|---|---|---|---|---|---|
| Price ..... each | $2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | |

# PATENT IMPROVED SPEED INDICATORS



Steel Cap for Pointed Centres

Nickel-Plated Throughout

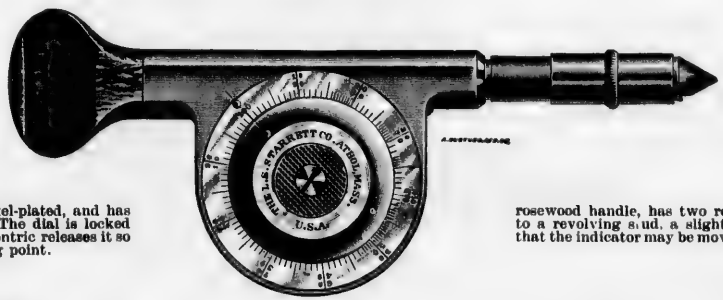
**No. 100**

No. **100**—Price Plain Cap ..... each $1.00
" **101**— " Split " ..... " 1.20




The working parts of this instrument are of figures, reading right or left. The inner ing gear by a checked wafer head screw, by plate is loosened, when the O mark may be increased, and the dial plate has two rows plate is frictionally clamped to the revolv- a pressure and twist with the thumb the instantly moved to the starting point.

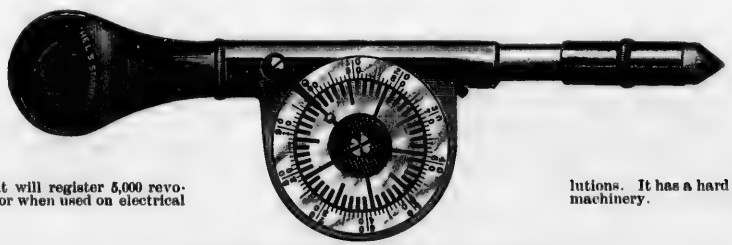
No. **104** ..... each $1.50



This instrument is nickel-plated, and has reading right and left. The dial is locked twist on the knurled eccentric releases it so to agree with the starting point.

rosewood handle, has two rows of figures to a revolving stud, a slight pressure and that the indicator may be moved and locked

No. **106** ..... each $2.25



This instrument will register 5,000 revo- ing a safe insulator when used on electrical lutions. It has a hard rubber handle mak- machinery.

**REGISTERING HIGH SPEED INDICATOR**

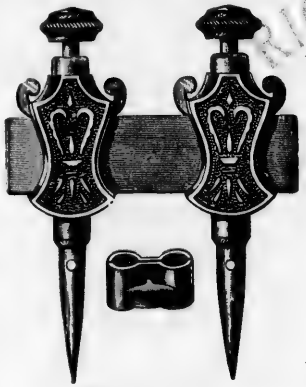
No. **107** ..... each $4.50

# WEISS DOUBLE ALARM SPEED INDICATOR



A Bell placed at the back of the Dial rings at every hundred revolutions of the spindle.

Price..... each $1.90



Nos. 1, 2 and 3

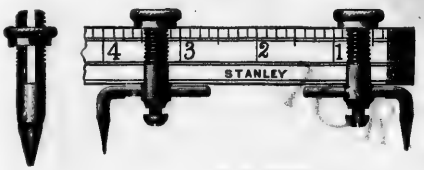
## IMPROVED TRAMMEL POINTS

Bronze Metal, with Steel Points and Pencil Holder.

| Nos | 1 | 2 | 3 | |
|---|---|---|---|---|
| Length | 2⅜ | 4 | 4⅞ | inch. |
| Price ..... per pair | $1.00 | 1.25 | 1.75 | |

One pair in a box.

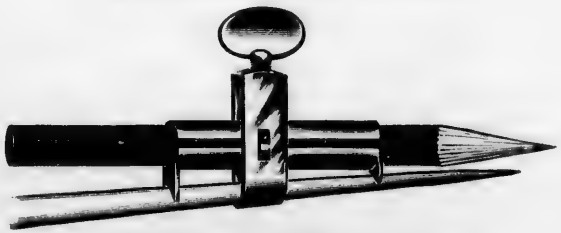
## STANLEY'S PATENT RULE TRAMMEL POINTS




A complete set consists of two Brass Trammel Heads with movable steel points and one head with a Pencil Socket. They can be attached to folding rules of any ordinary width.

No. 99. Per set of 3 in a box..... $0.60

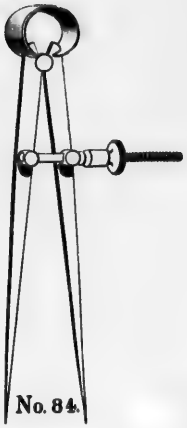
## EXCELSIOR PENCIL HOLDER



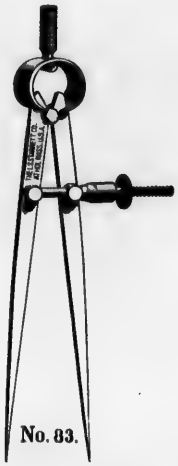
Can be attached to any Divider or Compass.

Per dozen..... 2.50

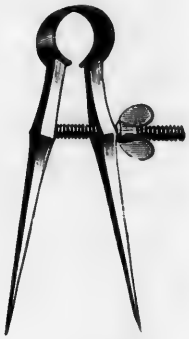
# SPRING DIVIDERS



No. 84.



No. 83.

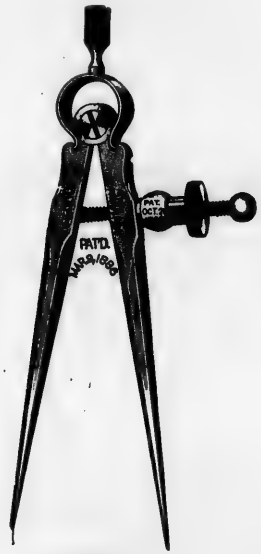


No. 8170

| Size | 2½ | 3 | 4 | 5 | 6 | 7 | 8 inch. |
|---|---|---|---|---|---|---|---|
| No. 84 ..... each | $0.80 | 0.90 | 0.95 | 1.00 | 1.05 | .... | 1.40 |
| " 83 ..... " | 1.00 | 1.05 | 1.15 | 1.20 | 1.25 | .... | 1.55 |
| " 8170, Boker's ..... " | .... | ... | .. . | 0.45 | 0.50 | 0.55 | 0.80 |




No. 66.




No. 67.



No. 44.



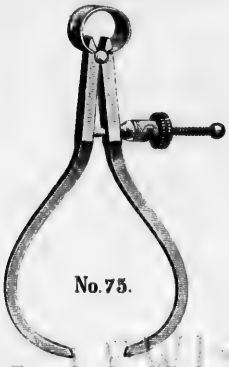
No. 45.

| Length | 2½ | 3 | 4 | 5 | 6 inch. |
|---|---|---|---|---|---|
| No. 66 ..... each | . .. | $1.25 | 1.55 | 1.55 | 1.90 |
| " 67 ..... " | .... | 1.45 | 1.75 | 1.90 | 2.20 |
| " 44 ..... " | $0.80 | 0.90 | 0.95 | 1.00 | 1.05 |
| " 45 ..... " | 1.00 | 1.05 | 1.15 | 1.20 | 1.25 |

# SPRING CALIPERS



No. 74.



No. 75.



No. 76.

**WITH SPRING NUT**

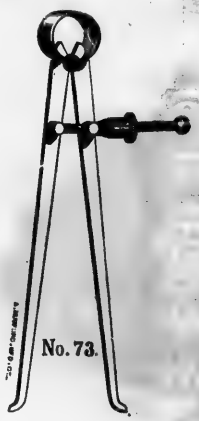
| Size | | 2½ | 3 | 4 | 5 | 6 | inch. |
|---|---|---|---|---|---|---|---|
| No. 74 | each | .... | $1.45 | 1.55 | 1.55 | 1.90 | |
| " 75 | " | $1.45 | 1.45 | 1.55 | 1.55 | 1.90 | |
| " 76 | " | .... | 1.45 | 1.55 | 1.55 | .... | |

**WITH SOLID NUT**

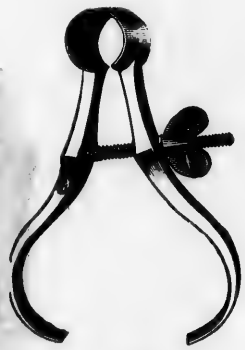
| Size | | 2½ | 3 | 4 | 5 | 6 | inch. |
|---|---|---|---|---|---|---|---|
| No. 74 | each | .... | $1.25 | 1.40 | 1.40 | 1.70 | |
| " 75 | " | $1.25 | 1.25 | 1.40 | 1.40 | 1.70 | |
| " 76 | " | .... | 1.25 | 1.40 | 1.40 | .... | |



No. 79.

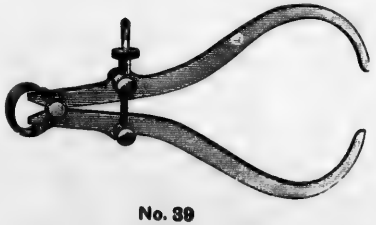


No. 73.

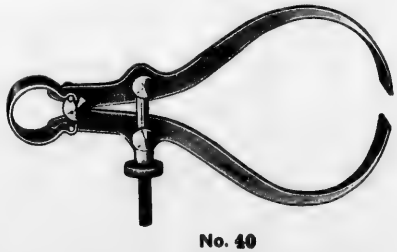


No. 8171

| Size | | 2½ | 3 | 4 | 5 | 6 | 7 | 8 | inch. |
|---|---|---|---|---|---|---|---|---|---|
| No. 79 or 73—With Spring Nut | each | $1.10 | 1.20 | 1.25 | 1.30 | 1.40 | .... | 1.55 | |
| " 79 or 73— " Solid " | " | 0.80 | 0.90 | 0.95 | 1.00 | 1.05 | .... | 1.25 | |
| " 8171—Boker's, with Solid Nut | " | .... | .... | .... | 0.50 | 0.55 | 0.65 | .... | |



No. 39



No. 40

| Size | | 3 | 4 | 4½ | 5 | 6 | 8 | inch. |
|---|---|---|---|---|---|---|---|---|
| No. 39—Outside Spring Caliper | each | $0.90 | 0.95 | 1.00 | 1.00 | 1.05 | 1.25 | |
| " 40—Thread Caliper | " | $0.95 | 1.15 | .... | 1.25 | .... | .... | |

## IMPROVED FIRM-JOINT CALIPERS




**PRICES**

Nos. **26** and **27**

| | | |
|---|---|---|
| 3 inch | each | $0.50 |
| 4 " | " | 0.65 |
| 5 " | " | 0.70 |
| 6 " | " | 0 80 |
| 8 " | " | 1.00 |
| 10 " | " | 1.05 |
| 12 " | " | 1 25 |
| 14 " | " | 1.90 |
| 16 " | " | 2.20 |
| 18 " | " | 2.60 |
| 20 " | " | 3.10 |
| 24 " | " | 3.75 |

The above sizes refer to the length of the Calipers.

Their capacity is about one-third greater than the size given.




## LOCK-JOINT TRANSFER CALIPERS



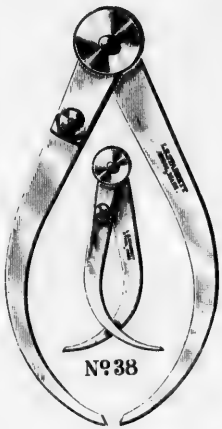

**PRICES**

Nos. **36** and **37.**

| | | |
|---|---|---|
| 4 inch | each | $1 55 |
| 5 " | " | 1.75 |
| 6 " | " | 1.90 |
| 8 " | " | 2.20 |
| 10 " | " | 2 50 |
| 12 " | " | 2.80 |
| 14 " | " | 3.15 |
| 16 " | " | 3.45 |
| 18 " | " | 3 75 |
| 20 " | " | 4.40 |
| 24 " | " | 5.30 |




## LOCK-JOINT CALIPERS AND DIVIDERS




**PRICES**

Nos. **38** and **39.**

| | | |
|---|---|---|
| 4 inch | each | $1.15 |
| 6 " | " | 1.25 |
| 8 " | " | 1.55 |
| 10 " | " | 1.90 |
| 12 " | " | 2.20 |
| 14 " | " | 2.50 |
| 16 " | " | 2.80 |
| 18 " | " | 3.10 |
| 20 " | " | 3.45 |
| 24 " | " | 4.40 |







**PRICES**

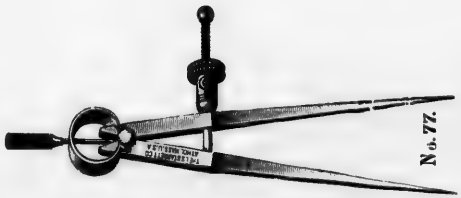
No. **41**

| | | |
|---|---|---|
| 3 inch | each | $0 50 |
| 4 " | " | 0.65 |
| 5 " | " | 0.70 |
| 6 " | " | 0.80 |
| 8 " | " | 1.00 |
| 10 " | " | 1.15 |
| 12 " | " | 1.25 |

No. **43**

| | | |
|---|---|---|
| 6 inch | each | $1.25 |
| 8 " | " | 1.55 |
| 10 " | " | 1.90 |

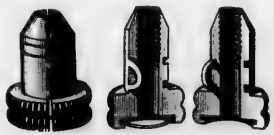



## SPRING DIVIDERS

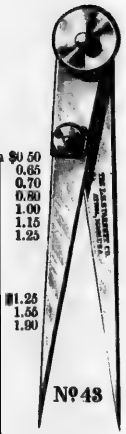
| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 2½ | inch, | each, | with | Spring | Nut | $1.45.. | with | Solid | Nut | $1.25 |
| 3 | " | " | " | " | " | 1.45.. | " | " | " | 1.25 |
| 4 | " | " | " | " | " | 1.75.. | " | " | " | 1.55 |
| 5 | " | " | " | " | " | 1.75.. | " | " | " | 1.55 |
| 6 | " | " | " | " | " | 2.20.. | " | " | " | 1.90 |

Dividers, No. 77, all sizes, are sent with Spring Nut unless otherwise ordered.






37.
55
1.75
1.90
2.20
2.50
2.80
3.15
3.45
3.75
4.40
4.80



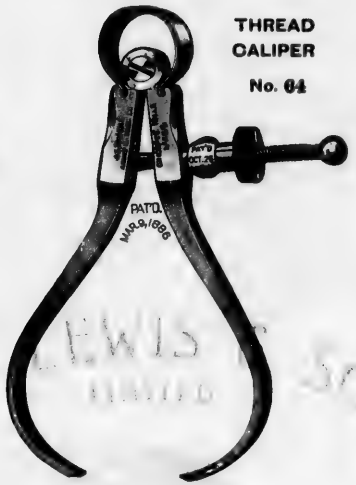

$0.50
0.65
0.70
0.80
1.00
1.15
1.25
1.25
1.55
1.90

olid Nut $1.25
" " 1.25
" " 1.55
" " 1.55
" " 1.90

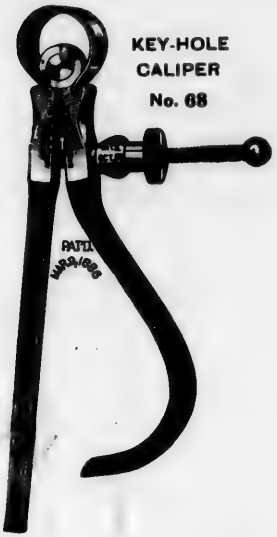
# CALIPERS



OUTSIDE CALIPER
No. 63




THREAD CALIPER
No. 64




KEY-HOLE CALIPER
No. 68

| Size | | 2½ | 3 | 4 | 5 | 6 inch. |
|---|---|---|---|---|---|---|
| No. 63 | each | $1.25 | 1.25 | 1.55 | 1.55 | 1.90 |
| " 64 | " | .... | 1.25 | .... | 1.55 | .... |
| " 68 | " | .... | 1.45 | .... | 1.90 | .... |




INSIDE CALIPER
No. 65

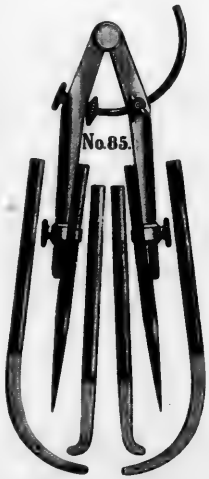
No. 65—3 inch.....each $1.25
4 " ..... " 1.55
5 " ..... " 1.55

BRONZE METAL
NICKEL-PLATED
No. 90



The Head with short point is eight inches long; may be extended two inches more; will caliper 10 inches outside and 12 inches inside.

No. 90—With short points only .....each $3.40
Set complete .. " 6.00




No. 85—7 inch, with Divider Legs only....each $1.55
9 inch, with Divider Legs only ...each 1.90
7 inch, complete " 2.80
9 " " . " 3.75

# CALIPERS AND DIVIDERS



No. 50



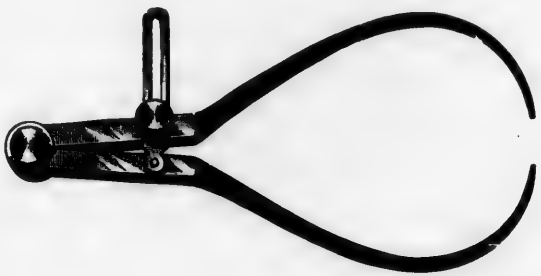
No. 1545½

| Size | | 3 | 4 | 5 | inch. |
|---|---|---|---|---|---|
| No. 1545½ | per doz. | $2.00 | 2.00 | 2.00 | |

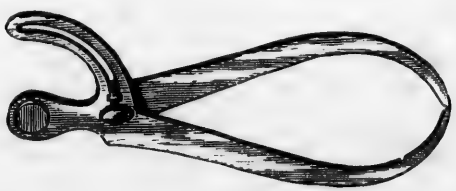


No. 1594

| Size | | 5 | 6 | 7 | 8 | 9 | 10 | 12 | inch. |
|---|---|---|---|---|---|---|---|---|---|
| No. 50 | per doz. | $2 90 | 2.90 | 3.45 | 3.95 | 4.75 | 5.25 | 6.30 | |
| " 1594 | " | .... | $2.00 | 2.40 | .... | .... | .... | .... | |



| Size | | 5 | 7 | 9 | inch. |
|---|---|---|---|---|---|
| No. 250 | per doz. | $6.00 | 7.50 | 9.00 | |



No. 7

| Size | | 4 | 6 | 8 | inch. |
|---|---|---|---|---|---|
| No. 7 | per doz. | $6.00 | 7.50 | 10.50 | |

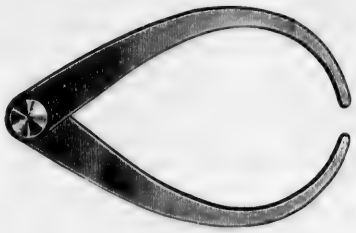


No. 60

| Size | | 6 | 8 | 10 | 12 | inch. |
|---|---|---|---|---|---|---|
| No. 60 | per doz. | $4.55 | 5.85 | 7.15 | 8.45 | |

# CALIPERS

## FIRM JOINT CALIPERS

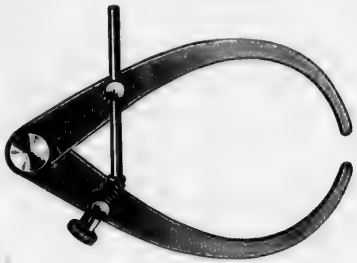


No. 41

| Size | 4 | 6 | 8 | 10 inch. |
|---|---|---|---|---|
| No. 41 ..... each | $0.65 | 0.80 | 1.00 | 1.25 |

## FIRM JOINT CALIPERS

With Screw Adjustment.



No. 42

| Size | 4 | 6 | 8 | 10 inch. |
|---|---|---|---|---|
| No. 42 ..... each | $0.95 | 1.15 | 1.30 | 1.55 |

## COMBINATION CALIPER AND DIVIDER



No. 47

| Size | 4 | 6 | 8 | 10 inch. |
|---|---|---|---|---|
| No. 47 ..... each | $2.50 | 2.80 | 3.10 | 3.45 |

## HERMAPHRODITE CALIPER



No. 48

| Size | 4 | 6 | 8 | 10 inch. |
|---|---|---|---|---|
| No. 48 ..... each | $0.95 | 1.25 | 1.55 | 1.90 |

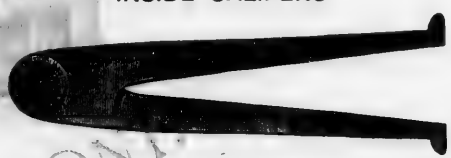
## OUTSIDE CALIPERS



No. 13

| Size | 2 | 3 | 4 | 6 | 8 | 12 | 18 | 24 inch. |
|---|---|---|---|---|---|---|---|---|
| Per doz. | $2.25 | 2.60 | 2.90 | 3.50 | 5.25 | 7.25 | 20.00 | 30.00 |

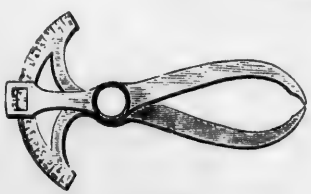
## INSIDE CALIPERS



No. 14

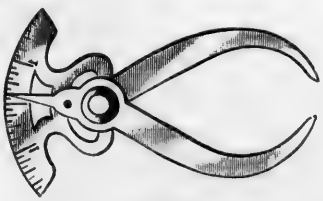
| Size | 2 | 3 | 4 | 6 | 8 | 12 | 24 inch. |
|---|---|---|---|---|---|---|---|
| Per doz. | $2.25 | 2.60 | 2.90 | 3.50 | 5.25 | 7.25 | 30.00 |

## REGISTERING CALIPERS



No. 1566

| Size | 5 | 7 inch. |
|---|---|---|
| No. 1566 ..... each | $1.25 | 1.85 |



No. 165

| Size | 3 | 4 | 5 inch. |
|---|---|---|---|
| No. 165 ..... each | $0.70 | 0.85 | 1.00 |

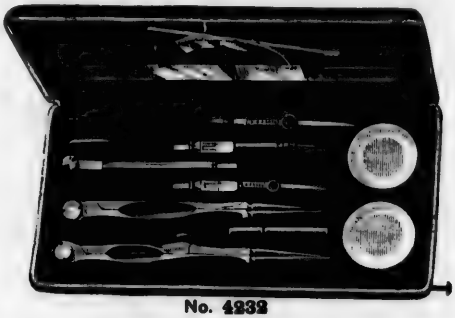
# MATHEMATICAL SETS



No. 4200

**No. 4200**—6 pieces, viz.: 1 pair 3½ inch Dividers, with Pen and Pencil Attachments; 1 Pencil Holder, Wrench and Scale. In Velvet Lined, Polished Wood Case.....each $0.60

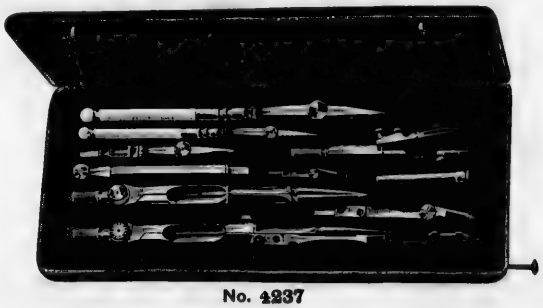
**No. 4217**—6 pieces, viz.: 1 pair 4½ inch Dividers, with Pen and Pencil Attachments; 1 Pencil Holder, Wrench and Ink Cup. In Velvet Lined, Leather Covered Case .....each 0.80



No. 4232

**No. 4232**—12 pieces, viz.: 1 pair 4½ inch Plain Dividers; 1 pair 5 inch Dividers, with Pen, Pencil and Lengthening Bar; 1 Drawing Pen, Quadrant, Boxwood Straight Edge and Corner Square; 2 Ink Cups. In Velvet Lined, Leather Covered Case .....each 1.85

**No. 4230**—12 pieces, viz.: 1 pair 4½ inch Plain Dividers; 1 pair 5 inch Dividers, with Pen, Pencil and Lengthening Bar; 1 Drawing Pen, German Silver Protractor Scale, Pencil Holder and Wrench, Handles Nickel-plated. In Velvet Lined, Leather Covered Case .....each 2.65

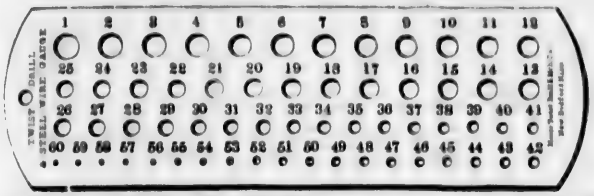


No. 4237

**No. 4237**—10 pieces, viz.: 1 pair 5½ inch Dividers, with Thumb Attachment, Pen, Pencil and Lengthening Bar; 1 pair 5½ inch Plain Dividers, with Thumb Attachment; 1 pair 3½ inch Pen Dividers, with Thumb Attachment; 1 Drawing Pen, Pencil Holder and Wrench, German Silver Protractor Scale, Handles Nickel-plated, Dividers with Adjustable Needle Points. In Velvet Lined, Leather Covered Case .....each 5.70

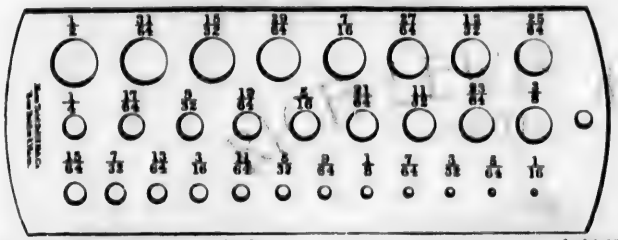
**No. 4238**—15 pieces, viz.: 1 pair 5½ inch Dividers, with Pen, Pencil and Lengthening Bar; 1 pair 5½ inch Plain Dividers; 1 pair 3½ inch Dividers, with Thumb Attachment and Pen and Pencil Pieces; 1 pair 3 inch Pen Dividers, with Thumb Attachment; 1 each 4½ and 5 inch Ivory Handled Pencil Holder and Wrench, Handles Nickel-plated. In Velvet Lined, Leather Covered Case .....each 8.85

## TWIST DRILL AND STEEL WIRE GAUGE




No. **774**—Gauge numbers from 1 to 60 ..... each $2.25
This gauge is used for measuring Twist Drills and Stub's Steel Rods.

## JOBBERS' DRILL GAUGE




No. **775**—Sizes from 1/16 to 1/2 inch ..... each $4.00

## SIZES OF THE NUMBERS OF TWIST DRILL AND STEEL WIRE GAUGE

| No. | Size of Number in Decimals. | No. | Size of Number in Decimals. |
|---|---|---|---|
| 1 | .2280 | 31 | .1200 |
| 2 | .2210 | 32 | .1160 |
| 3 | .2130 | 33 | .1130 |
| 4 | .2090 | 34 | .1110 |
| 5 | .2055 | 35 | .1100 |
| 6 | .2040 | 36 | .1065 |
| 7 | .2010 | 37 | .1040 |
| 8 | .1990 | 38 | .1015 |
| 9 | .1960 | 39 | .0995 |
| 10 | .1935 | 40 | .0980 |
| 11 | .1910 | 41 | .0960 |
| 12 | .1890 | 42 | .0935 |
| 13 | .1850 | 43 | .0890 |
| 14 | .1820 | 44 | .0860 |
| 15 | .1800 | 45 | .0820 |
| 16 | .1770 | 46 | .0810 |
| 17 | .1730 | 47 | .0785 |
| 18 | .1695 | 48 | .0760 |
| 19 | .1660 | 49 | .0730 |
| 20 | .1610 | 50 | .0700 |
| 21 | .1590 | 51 | .0670 |
| 22 | .1570 | 52 | .0635 |
| 23 | .1540 | 53 | .0595 |
| 24 | .1520 | 54 | .0550 |
| 25 | .1495 | 55 | .0520 |
| 26 | .1470 | 56 | .0465 |
| 27 | .1440 | 57 | .0430 |
| 28 | .1405 | 58 | .0420 |
| 29 | .1360 | 59 | .0410 |
| 30 | .1285 | 60 | .0400 |

## WIRE GAUGES



No. **611**



No. **848**



No. **1110**

No. **611**, Wynn's Round Wire Gauge, sizes 1 to 30, English Standard ..... each $3.00
" **730**, Brown & Sharpe " " " 0 to 36, American " ..... " 3.75
" **732**, " " " " " 5 to 36, " " ..... " 3.00
" **734**, " " " " " 1 to 36, English " ..... " 3.00
" **736**, " " " " " 6 to 36, " " ..... " 2.25
" **848**, Wynn's Double Round " " 1 to 30, " ..... " 3.50
" **1110**, " Oblong " " 1 to 26, " ..... " 3.00
" **292**, Stubs' " " 1 to 36, " ..... " 3.95

## OF WIRE GAUGE SIZES

| Number of Wire Gauge. | American or Brown & Sharpe. | Birmingham, or Stubs' Wire. | Number of Wire Gauge. | American or Brown & Sharpe. | Birmingham, or Stubs' Wire. |
|---|---|---|---|---|---|
| 000000 | ..... | ..... | 18 | .040303 | .049 |
| 00000 | ..... | ..... | 19 | .03589 | .042 |
| 0000 | .46 | .454 | 20 | .031961 | .035 |
| 000 | .40964 | .425 | 21 | .028462 | .032 |
| 00 | .3648 | .38 | 22 | .025347 | .028 |
| 0 | .32486 | .34 | 23 | .022571 | .025 |
| 1 | .2893 | .3 | 24 | .0201 | .022 |
| 2 | .25763 | .284 | 25 | .0179 | .02 |
| 3 | .22942 | .259 | 26 | .01594 | .018 |
| 4 | .20431 | .238 | 27 | .014195 | .016 |
| 5 | .18194 | .22 | 28 | .012641 | .014 |
| 6 | .16202 | .203 | 29 | .011257 | .013 |
| 7 | .14428 | .18 | 30 | .010025 | .012 |
| 8 | .12849 | .165 | 31 | .008928 | .01 |
| 9 | .11443 | .148 | 32 | .00795 | .009 |
| 10 | .10189 | .134 | 33 | .00708 | .008 |
| 11 | .090742 | .12 | 34 | .006304 | .007 |
| 12 | .080808 | .109 | 35 | .005614 | .005 |
| 13 | .071961 | .095 | 36 | .005 | .004 |
| 14 | .064084 | .083 | 37 | .004453 | ..... |
| 15 | .057068 | .072 | 38 | .003965 | ..... |
| 16 | .05082 | .065 | 39 | .003531 | .... |
| 17 | .045257 | .058 | 40 | .003144 | ..... |

## TABLES OF DECIMAL EQUIVALENTS

### OF FRACTIONAL SIZES

| | | |
|---|---|---|
| 1/64 = .015625 | 11/32 = .34375 | 43/64 = .671875 |
| 1/32 = .03125 | 23/64 = .359375 | 11/16 = .6875 |
| 3/64 = .046875 | 3/8 = .375 | 45/64 = .703125 |
| 1/16 = .0625 | 25/64 = .390625 | 23/32 = .71875 |
| 5/64 = .078125 | 13/32 = .40625 | 47/64 = .734375 |
| 3/32 = .09375 | 27/64 = .421875 | 3/4 = .750 |
| 7/64 = .109375 | 7/16 = .4375 | 49/64 = .765625 |
| 1/8 = .125 | 29/64 = .453125 | 25/32 = .78125 |
| 9/64 = .140625 | 15/32 = .46875 | 51/64 = .796875 |
| 5/32 = .15625 | 31/64 = .484375 | 13/16 = .8125 |
| 11/64 = .171875 | 1/2 = .500 | 53/64 = .828125 |
| 3/16 = .1875 | 33/64 = .515625 | 27/32 = .84375 |
| 13/64 = .203125 | 17/32 = .53125 | 55/64 = .859375 |
| 7/32 = .21875 | 35/64 = .546875 | 7/8 = .875 |
| 15/64 = .234375 | 9/16 = .5625 | 57/64 = .890625 |
| 1/4 = .250 | 37/64 = .578125 | 29/32 = .90625 |
| 17/64 = .265625 | 19/32 = .59375 | 59/64 = .921875 |
| 9/32 = .28125 | 39/64 = .609375 | 15/16 = .9375 |
| 19/64 = .296875 | 5/8 = .625 | 61/64 = .953125 |
| 5/16 = .3125 | 41/64 = .640625 | 31/32 = .96875 |
| 21/64 = .328125 | 21/32 = .65625 | 63/64 = .984375 |

## OF MILLIMETERS AND FRACTIONS OF MILLIMETERS

1/100 mm. = .0003937 inch.

| mm | inches. | mm. | inches. | mm. | inches. |
|---|---|---|---|---|---|
| 1/100 | = .00079 | 18/100 | = .01732 | 35/100 | = .03386 |
| 2/100 | = .00157 | 19/100 | = .01811 | 36/100 | = .03465 |
| 3/100 | = .00236 | 20/100 | = .01890 | 37/100 | = .03543 |
| 4/100 | = .00315 | 21/100 | = .01969 | 38/100 | = .03622 |
| 5/100 | = .00394 | 22/100 | = .02047 | 39/100 | = .03701 |
| 6/100 | = .00472 | 23/100 | = .02126 | 40/100 | = .03780 |
| 7/100 | = .00551 | 24/100 | = .02205 | 41/100 | = .03858 |
| 8/100 | = .00630 | 25/100 | = .02283 | 1 | = .03937 |
| 9/100 | = .00709 | 26/100 | = .02362 | 2 | = .07874 |
| 10/100 | = .00787 | 27/100 | = .02441 | 3 | = .11811 |
| 11/100 | = .00866 | 28/100 | = .02520 | 4 | = .15748 |
| 12/100 | = .00945 | 29/100 | = .02598 | 5 | = .19685 |
| 13/100 | = .01024 | 30/100 | = .02677 | 6 | = .23622 |
| 14/100 | = .01102 | 31/100 | = .02756 | 7 | = .27559 |
| 15/100 | = .01181 | 32/100 | = .02835 | 8 | = .31496 |
| 16/100 | = .01260 | 33/100 | = .02913 | 9 | = .35433 |
| 17/100 | = .01339 | 34/100 | = .02992 | 10 | = .39370 |
| 18/100 | = .01417 | 35/100 | = .03071 | 11 | = .43307 |
| 19/100 | = .01496 | 36/100 | = .03150 | 12 | = .47244 |
| 20/100 | = .01575 | 37/100 | = .03228 | 13 | = .51181 |
| 21/100 | = .01654 | 38/100 | = .03307 | | |

10 mm. = 1 Centimeter = 0.3937 in.
10 cm. = 1 Decimeter = 3.937 "
10 dm. = 1 Meter = 39.37 "
25.4 mm. = 1 English Inch.

# IMPROVED COMBINATION SURFACE GAUGE

**CARR'S PATENT**

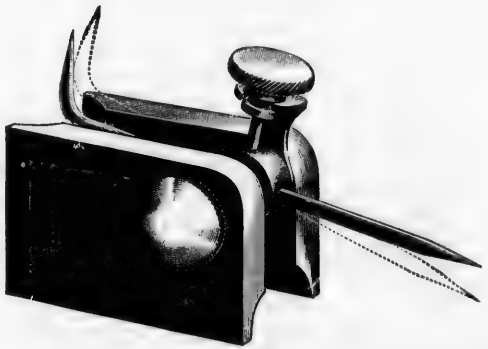




These gauges are made of the best material and workmanship and are finely finished. It has a fine adjustment of $\frac{1}{4}$ to $\frac{3}{8}$ inch, operated by the eccentric washer at the base of the shaft.

No. **2**, furnished with two spindles, making a 12 and 18 inch gauge ..... each **$4.50**

## CARR'S PATENT COMBINATION SCRIBING BLOCK

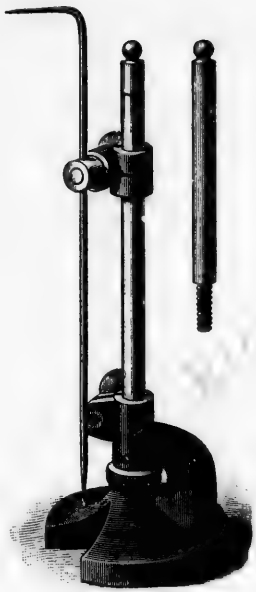


**No. 43**

This tool fills a want for a neat and convenient Scribing Block that can quickly be adjusted to the finest work. It contains the patented fine adjustment similar to that on our surface gauge, the needle being set in any position and held perfectly rigid by the side thumb nut while using the fine adjustment, by means of the eccentric thumb washer on top. It has a V-slot in the bottom of base by which work can be quickly and accurately trued to a boring bar. It also makes a useful and convenient scratch and depth gauge.

No. **43** ..... each **$2.65**

# SURFACE GAUGES



No. 52



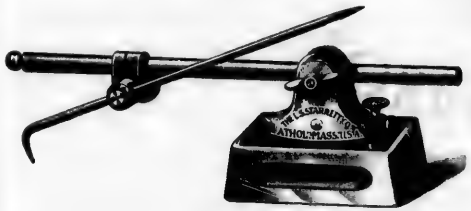
No. 53



No. 59

| Size | | 8 | 12 | | 12 inch. |
|---|---|---|---|---|---|
| No. 52—Starrett's Surface Gauges | each | $2.50 | 3.45 | with 6 in. extension | 4.05 |
| " 53— " " " | " | 3.75 | 5.65 | " " | 6.00 |
| " 59—Stevens' " " | " | 2.50 | 3.50 | | |

## TOOL-MAKERS' UNIVERSAL SURFACE GAUGES



No. 55

This Gauge has the following improved features, viz.: joint at the base which allows the spindle and scriber to be moved back and forth and placed in any position from upright to horizontal to reach over, back of and under work that could not be got at with old style gauges, while by inclining the spindle over the work its scope for long reach is increased.

| | | |
|---|---|---|
| No. 55—9 inch | each | $3.75 |
| 12 " | " | 4.50 |
| With two spindles 12 and 18 in. | " | 5.25 |

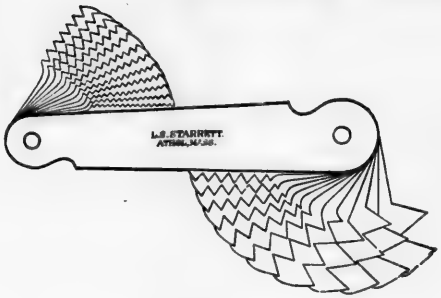


No. 56

This little tool is made on the principle of No. 55. The base is steel, nicely finished and *case-hardened*, with depressions milled in the sides for the thumb and finger to grasp. The top side of it is slotted, and the rocking bracket is pivoted in the same. There is a stiff spring under one end of the bracket and a knurled adjusting screw in the other. It weighs but 11 ounces and is 5 inches high, and, folding the spindle (which is 4 inches long) horizontally over the base, it may be packed in 1⅞ x 1½ x 4 inches space in the tool chest.

No. 56 ..... each $4.50

# IMPROVED SCREW PITCH GAUGES




**No. 4**

**24 Pitches, ¼ to 30. Cut Full Size.**

Has the following pitches: 4, 4½, 5, 5½, 6, 7, 8, 9, 10, 11, 11½, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30. The teeth are sharp and clean cut. ..... each $1.00

**No. 5**

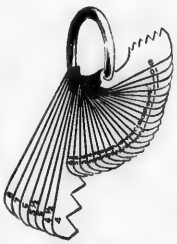
**26 Pitches, 32 to 82.**

Of the same form as our No. 40 Screw Pitch Gauge, for inside and outside work. Has the following pitches: 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82. ..... each $1.00



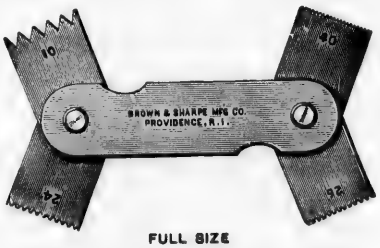

**No. 20**

Contains pitches 9, 10, 11, 12, 13, 14, 15, 16, 18, 20 on one end, and 22, 24, 26, 28, 30, 32, 34, 36, 38 and 40 on the other end. ..... each $1.00



**No. 22**

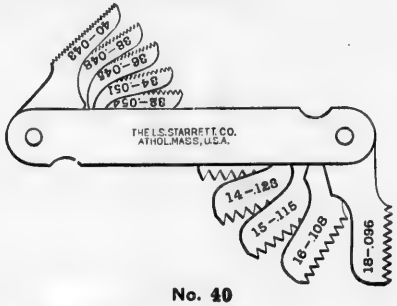
Pitches 4 to 40
Each ..... $1.15




FULL SIZE

**No. 21**

For 16 pitches: 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40 ..... each $1.45




**No. 40**

This Gauge has **20** pitches, viz.: 9, 10, 11, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40. A late improvement in our Screw Pitch Gauge consists in stamping on each leaf decimals, showing the double depth of thread on said leaf, and this of course, equals the depth of threads on the two sides of a tap having the same pitch, and helps the workman to determine the size of drill needed to drill the hole the right size to leave a full V thread for a tap having the same pitch. ..... each $1.50

**No. 7**

For Whitworth Standard Thread only.

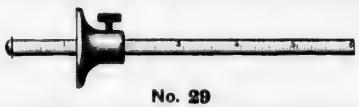
**20 Pitches, 4 to 30.**

Has the following pitches: 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 20, 22, 24, 25, 26, 28, 30.... each $1.90

**No. 11½**

For pipe and brass work. This gauge is the same as No. 40, except that pitches 8, 11½ and 27 are substituted in place of 36, 38 and 40. each $1.50

## STARRETT'S SCRATCH GAUGE



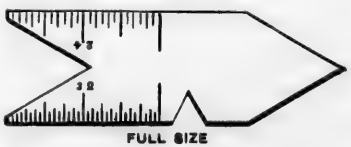
**No. 29**

Made of steel, with *hardened* cast steel head.

| | Graduated. | Not Graduated. |
|---|---|---|
| No. 29—5 inch (beam ⅛ in.). each | $1.50 | 1.00 |
| 6 " " 1/16 " . " | 1.90 | 1.15 |

Two extra cutters will be sent with each gauge, fastened to the case.

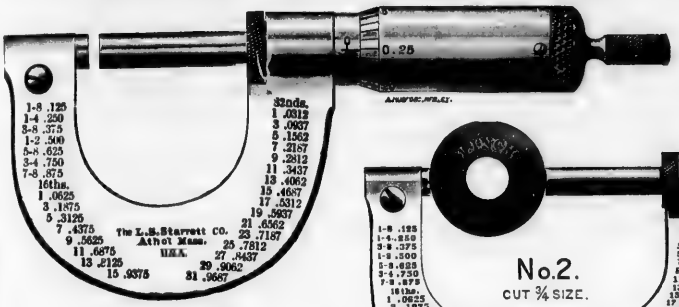
## GRADUATED CENTRE GAUGE




FULL SIZE

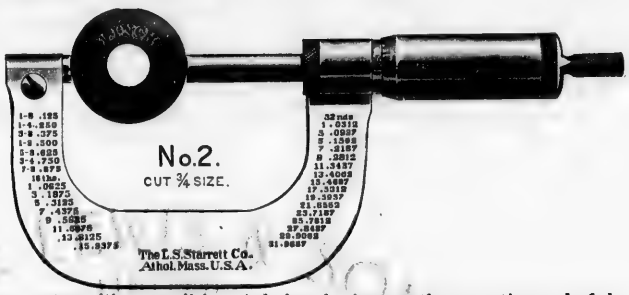
Spring tempered ..... each $0.60
Not tempered ..... " 0.40

# STARRETT'S SPEEDED SCREW MICROMETER




OUT FULL SIZE.

**No. 3**




These cuts represent an improved Micrometer with a small knurled thumb piece on the operating end of the spindle, by means of which its rotation is speeded (about three to one) by the action of the thumb and finger between which it is made to rotate.

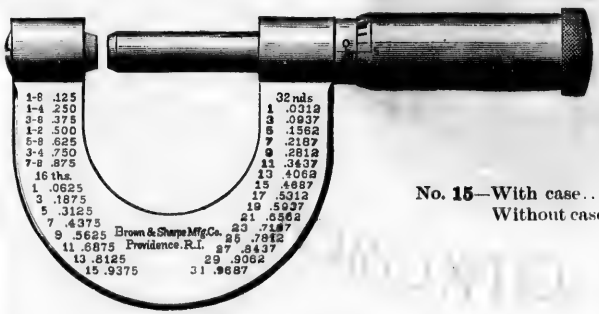
A further improvement in this Micrometer (saving the necessity of splitting the barrel to take up wear in the nut, with openings for dirt to get through) consists in a bushing running through full length of the barrel, and firmly secured therein, said bushing being chambered in middle inside, and each end tapered outside, both ends being split in three sections nearly half the length. One end is threaded inside for the screw, the other smooth to fit spindle. A knurled nut, threaded on the outside, is screwed to each end of the barrel, telescoping the ends of bushing, one to take up wear and cause a close fit between the screw and nut, the other to contract the busning to a close fit on the spindle, or by a slight turn of the nut lock firm, thus making a solid gauge when desired, which for reliability has no equal.

No. 2 is the same as No. 3, except that it is for measurements from 1 inch to 2 inches.

**No. 3**.....each $9.00
In Leatherette case ..... " 9.75

**No. 2**.....each $9.75
In Leatherette case ..... " 10.50

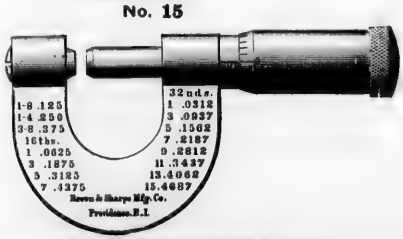
## BROWN & SHARPE MFG. CO.'S MICROMETER




**No. 15**

This Caliper is shown full size in cut, and measures all sizes less than an inch by thousandths of an inch.

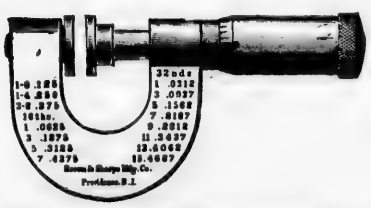
**No. 15**—With case.....each $8.65
Without case..... " 7.50



**B. & S. MICROMETER, No. 2**

This Caliper is shown full size in cut, and measures all sizes less than one-half inch by thousandths of an inch.

**No. 2**—With case.....each $7.50
Without case ..... " 6.75



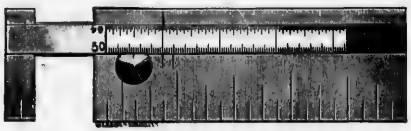
**B. & S. PAPER GAUGE MICROMETER, No. 70**

This Caliper is shown full size in cut, and measures all sizes less than ½ of an inch by thousandths of an inch.

**No. 70**—With case.....each $9.00
Without case ..... " $8.25

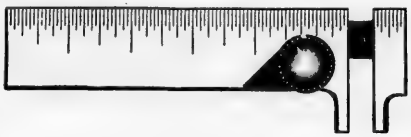
These Calipers can be supplied in the Metric Measure to order.

## LOCK SLIDE CALIPER RULE



3 inch .....each $3.00
4 " ..... " 3.75

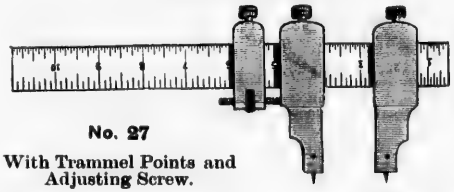
## INSIDE CALIPER RULE



3 inch .....each $3.75
4 " ..... " 4.50

The slides in these rules are graduated in 50ths and 64ths and verniers to 100ths, are quickly and accurately adjusted, and when adjusted can be firmly locked in position by a thumb nut.

## CALIPER GAUGE



No. 27

With Trammel Points and Adjusting Screw.

12 inch .....each $6.00

## CALIPER GAUGE



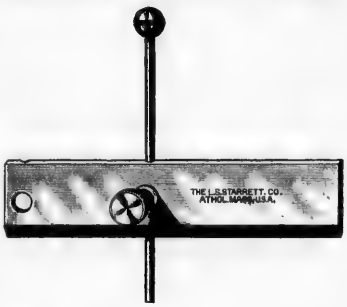

No. 28

Half size.

For Outside and Inside Measure.

Each..... $12.00

## STARRETT'S DEPTH GAUGE



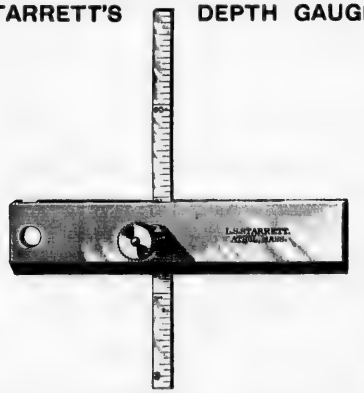

No. 45—With 4 inch stock..... .....each $1.15
" 6 " " ..... " 1.75
" 10 " " ..... " 2.00

The wire in this Gauge is held to a groove by a friction spring inside the nut while adjusting, and may be used close to the end, as well as in the middle of the Straight Edge. By loosening the nut, the Gauge may be neatly folded.




No. 85—Depth Gauge.....each $0.75

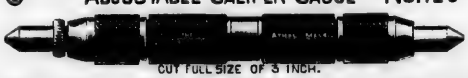
## STARRETT'S DEPTH GAUGE




No. 46—With 4 inch stock .....each $1 90
" 6 " " ..... " 2.25
" 6 inch stock, and 6 inch blade.. " 2.65
" 10 " " " 6 " " .. " 3.40

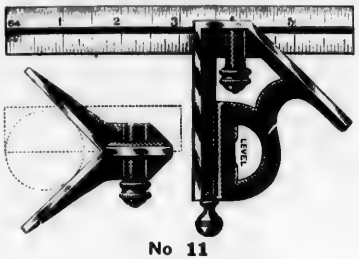
Has in place of the round wire to slide in the groove, as shown with No. 45, a 4 inch scale, $\frac{3}{16}$ inch wide, graduated in either 32nds and 64ths, 50ths and 100ths, or 64ths and 100ths, indicating exact measurements, and may be used separately from the Gauge.

## STARRETT'S ADJUSTABLE CALIPER GAUGE No.125




3 inch, with two rods, capacity from 3 to 6$\frac{3}{8}$ in., each $1.50
6 " " three " " " 6 " 16 " " 1.90

## STARRETT'S COMBINATION SQUARE

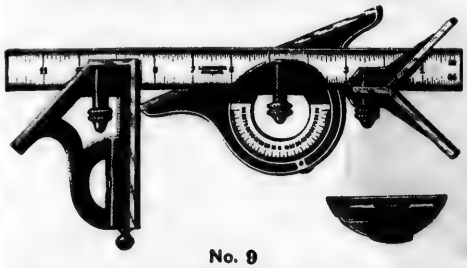


No 11

With the adjustable scale this forms a most convenient and useful tool. One is a complete substitute for a whole set of common try squares, and is one of the best gauges made for transferring exact measurements or laying out work. It is also convenient for a depth gauge, or to square in a mortise. For a mitre it is perfect, while with the auxiliary centre head it forms a centering square, both inside and outside.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **4** | inch, without centre head or level | | | | | | $0.95 |
| **6** | " | with centre head | | | | | 1.25 |
| **9** | " | " | " | " | 2.20 | " | 1.55 |
| **12** | " | " | " | " | 2.50 | " | 1.90 |
| **18** | " | " | " | " | 3.45 | " | 2.80 |
| **24** | " | " | " | " | 4.05 | " | 3.45 |

## STARRETT'S COMBINATION SET

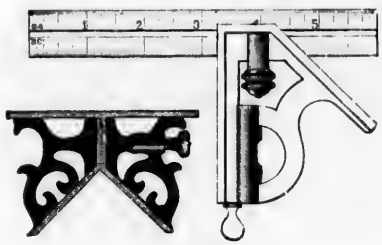


No. 9

This cut shows Combination Square (No. 11), with centre head and 7-inch Bevel Protractor head (No. 12), all on the No. 11 Square scale. Each head may be instantly removed, or replaced and used interchangeably with the scale, thus forming the most useful combination set of tools ever devised for mechanics' use.

| | | | | |
|---|---|---|---|---|
| **9** | inch, set complete | | | $4.70 |
| **12** | " | " | " | 5.00 |
| **18** | " | " | " | 5.95 |
| **24** | " | " | " | 6.55 |

## CHAPLIN'S TRY AND CENTRE SQUARE

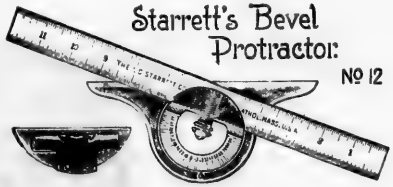


No. 16

A complete set comprises a mitre head, centre head and blade—one blade fitting both heads, with either head forms a complete tool in itself. The several parts will be furnished separately when desired.

| | Blade. | Mitre Head. | Centre Head | Complete. |
|---|---|---|---|---|
| **6** inch .. | $0.65 | 0.60 | 0.85 | 2.00 |
| **9** " .. | 0.80 | 0.80 | 1.20 | 2.50 |
| **12** " .. | 1.00 | 1.00 | 1.50 | 3.00 |

## Starrett's Bevel Protractor. No 12



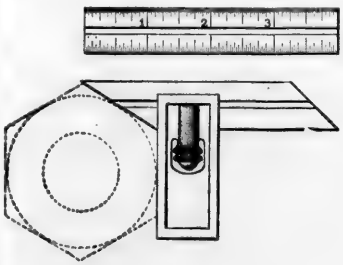
An adjustable rule, held firmly at any point by a thumb nut, passes through a revolving turret which is nicely graduated in degrees from 0 to 90, both right and left, and can be accurately adjusted to show any angle.

A valuable auxiliary is made in the shape of a small level to be attached in place of the rule removed, forming an adjustable level to show any degree, thus greatly increasing the usefulness of the instrument.

| | | |
|---|---|---|
| **9** | inch | $3.45 |
| **12** | " | 3.75 |
| **18** | " | 4.40 |
| **24** | " | 5.00 |

Protractor Head only, $2.50.

The blades are the same as those used on No. 11 squares. Those of No. 4 graduation will be sent unless otherwise ordered. The head is 7 inches long.



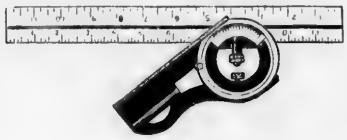
## STARRETT'S PATENT DOUBLE SQUARE

This cut represents the 4-inch Double Square stock with hexagon end of blade applied. Reverse it and the octagon is in position for use. Bevel blades are made to fit all sizes of Double Squares.

| | | | |
|---|---|---|---|
| **4** | inch | each | $1.90 |
| **4** | " with bevel blades | " | 2.45 |
| **6** | " | " | 3.00 |
| **6** | " with bevel blades | " | 3.75 |

Both blades always sent unless otherwise ordered.

## STARRETT'S PATENT INCLINOMETER



No. **10**

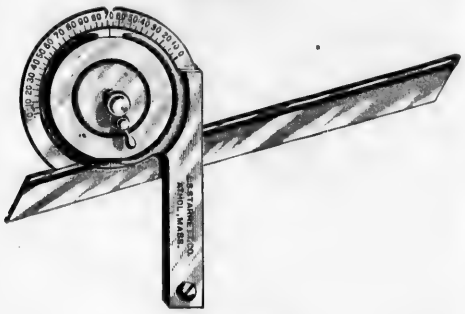
It consists of a stock and disc, both slotted to receive the blade. The blade attached to the graduated rotary disc may be secured at any angle from 0 to 90 degrees.

The working face of the stock extending both sides of the blade, admits of its being reversed, so that the same angle may be laid off in opposite directions *without changing* the angle in the tool, thus requiring but one-quarter of a graduated circle to obtain all angles both ways.

| | |
|---|---|
| No. **10**—With 12 in. blade | $ 7.50 |
| " 18 in. " | 9.00 |
| " 24 in. " | 10.50 |
| Centre head, to fit all sizes | 1.15 |

## UNIVERSAL BEVEL PROTRACTOR

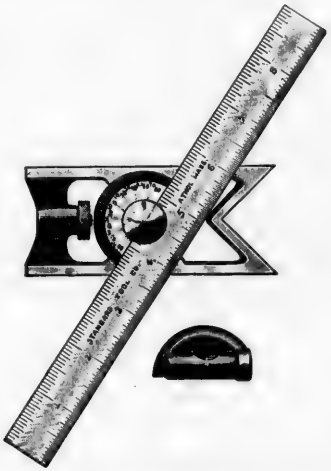
**STARRETT'S**



No. **360**

The disc is graduated in degree from 0 to 90 each way, and rotates the entire circle on a central stud inside the case. One side of the stock being flat, makes it a convenient tool for laying on paper in drafting, etc.

| | |
|---|---|
| No. **360**—7 inch | $7.50 |
| 12 " | 9.00 |
| With both 7 and 12 inch blades | 9.75 |



## COMBINATION SQUARE AND PROTRACTOR

**BELLOWS'**

In one end of the frame a slot is milled at an angle of ninety degrees; the blade is grooved its entire length, and is used in this slot when it is desired to use the tool as a square, being drawn to its seat by a hook bolt.

In the centre of the tool a disc graduated in degrees is inserted, having one-half of its surface cut away to allow the blade to be set in so that its surface will be level with the surface of the disc, the blade being held firmly in position by a bolt passing through the disc, and a cam catching in the groove of the blade and forcing it against the side of the disc, where it has been cut away, and in this position it is used as a protractor, or swung to zero and used as a centre square.

A level goes with the tool that can be inserted in the disc in place of the blade when desirable.

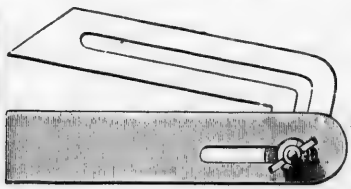
Price, 12 inch ..... each $7.50

## IMPROVED BEVEL




| | |
|---|---|
| No. **47**— 6 inch | each $1.90 |
| 9 " | " 2.25 |
| 12 " | " 2.65 |

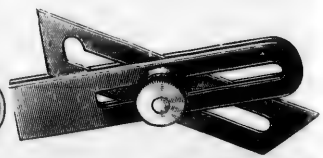
## UNIVERSAL BEVEL



No. **15**

No. **15**—3 inch ..... each $2.25

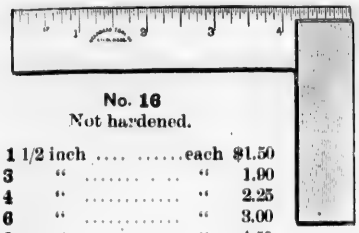
## UNIVERSAL BEVEL



No. **20**

| | |
|---|---|
| No. **20**—3 inch | each $1.90 |
| 5 " | " 3.00 |

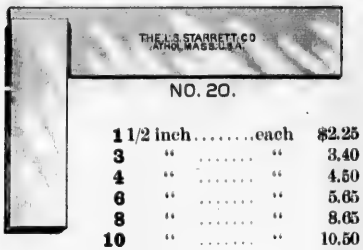
## GRADUATED STEEL SQUARE



No. 16
Not hardened.

| | | |
|---|---|---|
| 1 1/2 inch | each | $1.50 |
| 3 " | " | 1.90 |
| 4 " | " | 2.25 |
| 6 " | " | 3.00 |
| 8 " | " | 4.50 |
| 10 " | " | 7.50 |
| 12 " | " | 9.75 |

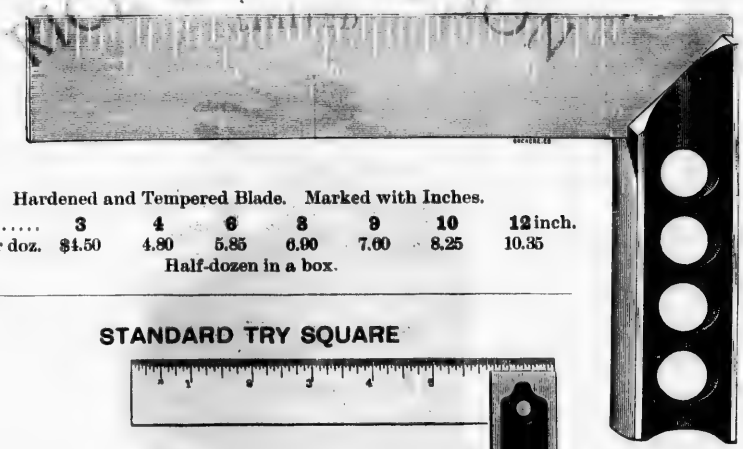
## HARDENED STEEL SQUARE




NO. 20.

| | | |
|---|---|---|
| 1 1/2 inch | each | $2.25 |
| 3 " | " | 3.40 |
| 4 " | " | 4.50 |
| 6 " | " | 5.65 |
| 8 " | " | 8.65 |
| 10 " | " | 10.50 |
| 12 " | " | 13.50 |

## IMPROVED IRON FRAME TRY SQUARE

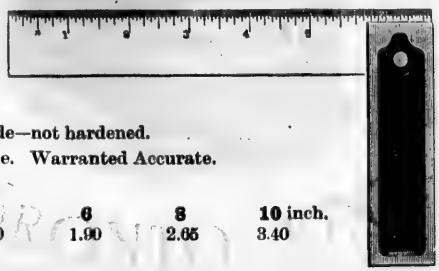


Hardened and Tempered Blade. Marked with Inches.

| Size | 3 | 4 | 6 | 8 | 9 | 10 | 12 inch. |
|---|---|---|---|---|---|---|---|
| No. 3½, Plain Stock ..... per doz. | $4.50 | 4.80 | 5.85 | 6.90 | 7.60 | 8.25 | 10.35 |

Half-dozen in a box.

## STANDARD TRY SQUARE

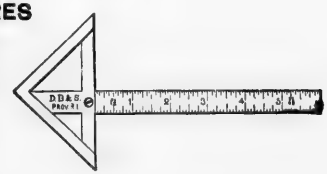


Graduated Steel Blade—not hardened.
Recessed Iron Handle. Warranted Accurate.

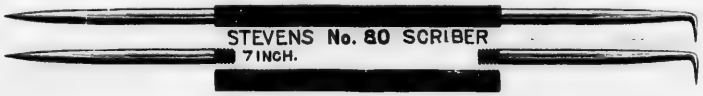
| Size | 3 | 4 | 6 | 8 | 10 inch. |
|---|---|---|---|---|---|
| Price ..... each | $1.15 | 1.50 | 1.90 | 2.65 | 3.40 |

## UNIVERSAL OR CENTRE SQUARES

The Universal or Centre Squares have blades graduated on one side. The 4 inch blade is graduated to 20ths on one corner and to 32nds of an inch on the other corner. The 6, 8, 10 and 12 inch blades are graduated to 12ths and 48ths on one corner and to 16ths and 32nds of an inch on the other corner.

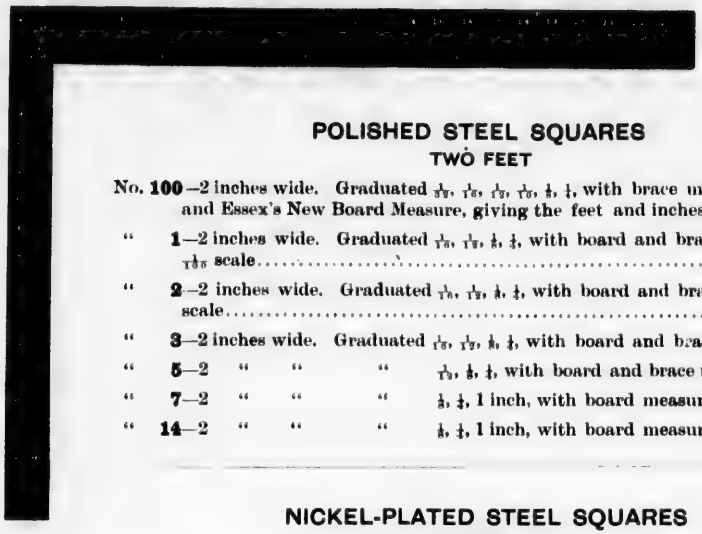



| Length of Blade | 4 | 6 | 8 | 10 | 12 inch. |
|---|---|---|---|---|---|
| Length of Head | 3 | 4 | 5½ | 7 | 8¾ " |
| Each | $3.00 | 3.75 | 5.25 | 7.50 | 9.00 |




No. 80—Scribers ..... each $0.60

# STEEL AND IRON SQUARES



## POLISHED STEEL SQUARES
### TWO FEET

| | | | |
|---|---|---|---|
| No. **100**—2 inches wide. Graduated $\frac{1}{32}$, $\frac{1}{16}$, $\frac{1}{12}$, $\frac{1}{10}$, $\frac{1}{8}$, $\frac{1}{4}$, with brace measure, 8 square, $\frac{1}{100}$ scale and Essex's New Board Measure, giving the feet and inches in full | per dozen | $40.00 |
| " **1**—2 inches wide. Graduated $\frac{1}{16}$, $\frac{1}{12}$, $\frac{1}{8}$, $\frac{1}{4}$, with board and brace measure, 8 square and $\frac{1}{100}$ scale | per dozen | 30.00 |
| " **2**—2 inches wide. Graduated $\frac{1}{16}$, $\frac{1}{12}$, $\frac{1}{8}$, $\frac{1}{4}$, with board and brace measure and 8 square scale | per dozen | 27.00 |
| " **3**—2 inches wide. Graduated $\frac{1}{16}$, $\frac{1}{12}$, $\frac{1}{8}$, $\frac{1}{4}$, with board and brace measure | " | 24.00 |
| " **5**—2 " " " $\frac{1}{12}$, $\frac{1}{8}$, $\frac{1}{4}$, with board and brace measure | " | 22.50 |
| " **7**—2 " " " $\frac{1}{8}$, $\frac{1}{4}$, 1 inch, with board measure | " | 21.50 |
| " **14**—2 " " " $\frac{1}{8}$, $\frac{1}{4}$, 1 inch, with board measure | " | 21.00 |

## NICKEL-PLATED STEEL SQUARES
### TWO FEET

| | | |
|---|---|---|
| No. **102**—2 inches wide. Graduated $\frac{1}{16}$, $\frac{1}{12}$, $\frac{1}{8}$, $\frac{1}{4}$, with board and brace measure and 8 square scale | per dozen | 35.00 |

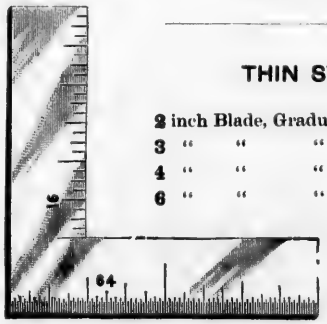
## POLISHED STEEL SQUARES
### ONE FOOT

| | | |
|---|---|---|
| No. **11**—1½ inch wide. Graduated $\frac{1}{8}$ and $\frac{1}{4}$ inch | per dozen | 17.00 |
| " **12**—1½ " " " $\frac{1}{16}$, $\frac{1}{12}$ and $\frac{1}{8}$ inch | " | 22.00 |

## BRIGHT IRON SQUARES
### TWO FEET

| | | |
|---|---|---|
| No. **492**—1½ inch wide. Graduated $\frac{1}{8}$ths on one side | per dozen | 2.15 |
| " **493**—1½ " " " $\frac{1}{8}$ths on both sides | " | 2.85 |
| " **494**—2 inches wide. " $\frac{1}{8}$ths " | " | 3.80 |
| " **494½**—2 " " " $\frac{1}{8}$ths on one side | " | 2.85 |

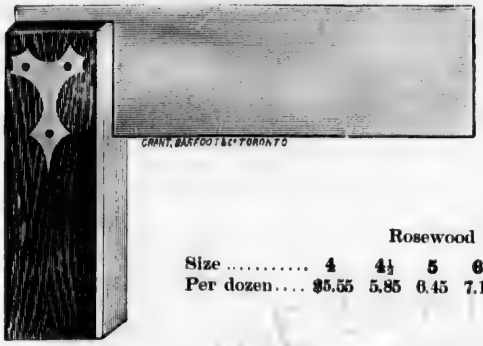
Steel, quarter dozen in a box. Iron, half dozen in a package.



## THIN STEEL SQUARES FOR MACHINISTS

| | | |
|---|---|---|
| **2** inch Blade, Graduated 16ths and 64ths, 32nds and 64ths | each | 1.50 |
| **3** " " " " " " " | " | 2.25 |
| **4** " " " both sides, 16ths and 32nds | " | 3.00 |
| **6** " " " " " " | " | 4.50 |

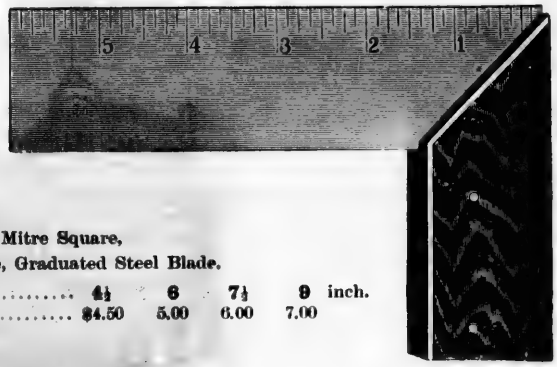
# TRY SQUARES




**MARPLES' No. 550**

Rosewood Handle, Brass Plate, Steel Blade.

| Size | 4 | 4½ | 5 | 6 | 7 | 8 | 9 | 10 | 12 | 14 | 16 | 18 inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Per dozen | $5.55 | 5.85 | 6.45 | 7.10 | 8.25 | 9.50 | 10.00 | 11.70 | 13.20 | 16.20 | 20.35 | 22.15 |

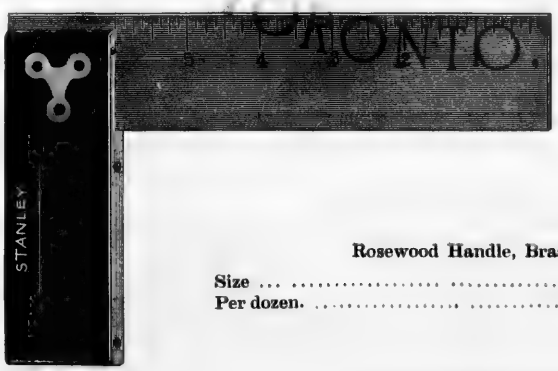



**No. 2**

Combined Try and Mitre Square,

Rosewood Handle, Brass Plate, Graduated Steel Blade.

| Size | 4½ | 6 | 7½ | 9 inch. |
|---|---|---|---|---|
| Per dozen | $4.50 | 5.00 | 6.00 | 7.00 |




**No. 20**

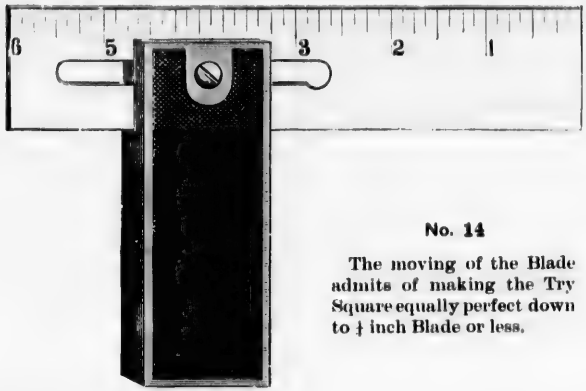
Rosewood Handle, Brass Plate, Graduated Steel Blade.

| Size | 4½ | 6 | 7½ | 9 | 10 | 12 inch. |
|---|---|---|---|---|---|---|
| Per dozen. | $3.75 | 5.00 | 5.75 | 6.50 | 7.25 | 8.50 |

Packed half-dozen in a box.

# ADJUSTABLE TRY SQUARES

Iron Handles, Graduated Steel Blade.




No. 14

The moving of the Blade admits of making the Try Square equally perfect down to ¼ inch Blade or less.

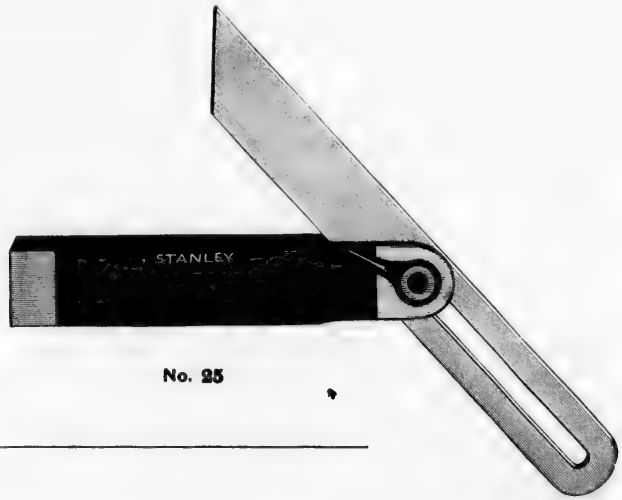
No. **14**—4 inch, one-half dozen in a box..... per doz. $3.75
6 " " " " " ..... " 4.55

## SLIDING T BEVELS

Rosewood Handle.
Brass Tips and Flush Lever.
Hardened and Tempered Blade.

No. **25**—6 inch .....per doz. $5.50
8 " ..... " 6.00
10 " ..... " 6.50
12 " ..... " 7.00

Half-dozen in a box.



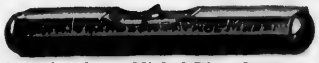

No. 25

## SHIP CARPENTERS' BEVELS

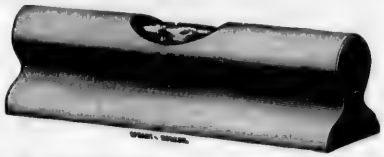



No. **42**—Boxwood, Double Tongue, 8ths and 16ths..... .....per doz. $6.00

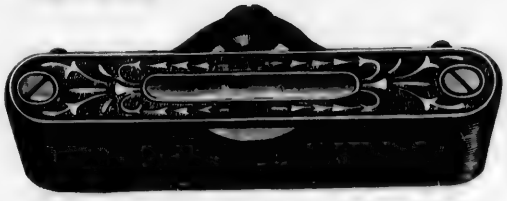
# POCKET LEVELS



No. **11**—2½ inches long, Nickel-Plated.....each $0.60
" **12**—3½ " " " ..... " 0.75



No. **1 P**—2½ inches long.....each $0.40
" **2 P**—3½ " " ..... " 0.45



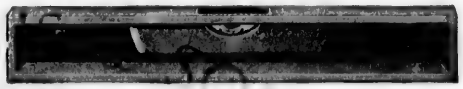
No. **41**

No. **40**—Iron Top Plate, Japanned .....per dozen $1.30
" **41**—Brass " " " ..... " " 1.50

One dozen in a box.



No. **3**—4 inch Iron Level.....each $1.00



No. **4**—6 inch Iron Level.....each $1.15




No. **39**—6 inch Iron Level, Nickel-Plated Top Plate.....each $0.50

## PLUMBS AND LEVELS



No. **5**



WITH DOUBLE PLUMB — No. **6**

| Nos. | **5** | **6** | **7** | **9** | **10** | |
|---|---|---|---|---|---|---|
| Length | 6 | 9 | 12 | 18 | 24 | inch. |
| Each | $2.25 | 2.50 | 2.65 | 3.00 | 3.40 | |



**Nos. 14 to 16**

Adjustable. The Tubes are Nickel-Plated; Bases are Japanned.

| Nos. | **14** | **15** | **16** | |
|---|---|---|---|---|
| Length | 4 | 6 | 8 | inch. |
| Each | $1.90 | 2 40 | 2.85 | |

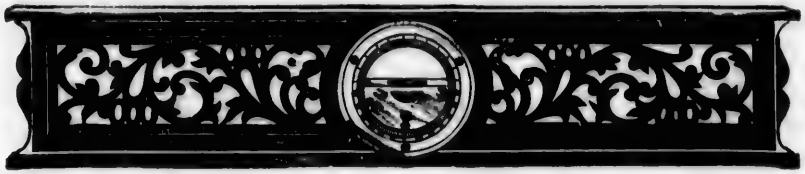


**ADJUSTABLE**

| Nos. | **06** | **07** | **08** | **09** | |
|---|---|---|---|---|---|
| Length | 6 | 12 | 18 | 24 | inch. |
| Each | $2.90 | 3.25 | 3.60 | 4.35 | |

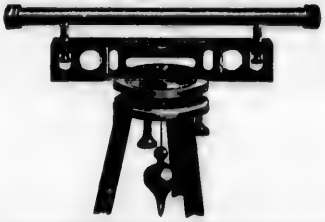
# SPIRIT LEVEL, PLUMB, AND INCLINOMETER

## DAVIS' PATENT ADJUSTABLE



| Nos. | 1 | 2 | 3 | 4 | |
|---|---|---|---|---|---|
| Length | 7 | 12 | 18 | 24 | inch |
| Each | $3.60 | 4.50 | 5.40 | 6.30 | |

## LEVELLING AND SQUARING INSTRUMENT



It is adapted for the use of Architects, Carpenters, Builders, Stone-masons and others, for levelling, getting angles, etc. It is made of iron, japanned. The sight tube is of brass, nickel-plated; weight packed in a box ready for shipment, 13¾ lbs. ..... each, complete $18.75

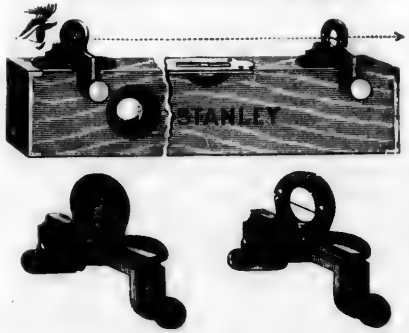
## GROOVED LEVEL




Above is shown a new Level, grooved on the bottom the whole length, which anyone who has occasion to level up shafting, piping, etc., will see the advantage of, as it enables the user to place the level in line with the shaft or pipe as readily as on a flat surface. These Levels are so made that they can be used on a flat surface the same as ordinary levels.

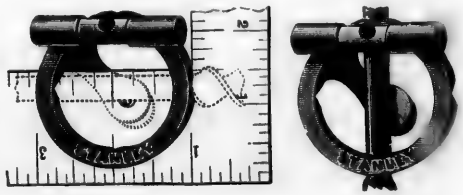
No. **105**—6 inch ..... each $2 25
" **107**—12 " ..... " 2.65

## IMPROVED LEVEL SIGHTS




No. **1**—Pair in a box ..... per pair $0.95

## BIT AND SQUARE LEVEL




No. **44**—Bit and Square Level, Brass Frame, in a box ..... each $0.35

# PLUMBS AND LEVELS



No. 0.

| | | | | |
|---|---|---|---|---|
| No | **00**—Plumb and Level, Arch Top Plate, Two Side Views, Polished, assorted, | 18 to 24 inch | per doz. | $16.00 |
| " | **0**— " " " " " " " | 24 to 30 " | " | 18.00 |
| " | **102**—Levels " " " " " | 10 to 16 " | " | 9.00 |
| " | **103**— " " " " " " | 18 to 24 " | " | 12.00 |
| " | **104**—Plumb and Level, " " " " " | 12 to 18 " | " | 14.00 |

## PATENT IMPROVED ADJUSTABLE PLUMBS AND LEVELS



No. 3

No. **2**—Patent Adjustable Plumb and Level, Arch Top Plate, Two Brass Lipped Side Views, Polished, assorted, 24 to 30 inch ..... per doz. 27 00

" **3**—Patent Adjustable Plumb and Level, Arch Top Plate, Two Side Views, Polished and Tipped, assorted, 24 to 30 inch ..... per doz. 30.00



No. 5

No. **5**—Patent Adjustable Plumb and Level, Triple Stock, Arch Top Plate, Two Ornamental Brass Lipped Side Views, Polished and Tipped, assorted, 24 to 30 inch ..... per doz. 48.00

" **6**—Patent Adjustable Mahogany Plumb and Level, Arch Top Plate, Two Brass Lipped Side Views, Polished, assorted, 24 to 30 inch ..... per doz. 33.00

" **10**—Patent Adjustable Mahogany Plumb and Level, Triple Stock, Two Ornamental Brass Lipped Side Views, Arch Top Plate, Polished and Tipped, assorted, 24 to 30 inch ..... per doz. 60.00




No. 25

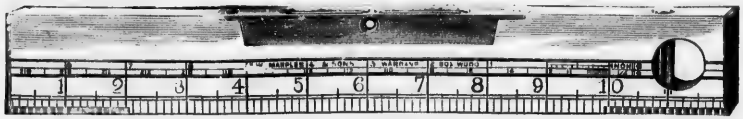
No. **25**—Patent Adjustable Plumb and Level, Mahogany, Arch Top Plate, Improved Duplex Side Views, Polished, Tipped, assorted, 24 to 30 inch ..... per doz. 67.10

" **30**—Patent Adjustable Plumb and Level, Cherry, Arch Top Plate, Improved Duplex Side Views, Polished, Tipped, assorted, 24 to 30 inch ..... per doz. 51.85

Packed half-dozen in a box.

# PLUMBS AND LEVELS

## RABONE'S



No. **1370**

No. **1368**—12 inch **Boxwood** Level and Rule, Brass Ends.....per doz. $ 9.30
" **1370**—12 " " Plumb, Level and Rule, Brass Ends..... " 12.25
18 " " " " " ..... " 16.75
24 " " " " " ..... " 20.75

Half-dozen in a box.

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## PROVED LEVEL GLASSES




Made of Extra Thick Tubing.

| Length..... | 1¾ | 2 | 2½ | 3 | 3½ | 4 | 4½ inch. |
|---|---|---|---|---|---|---|---|
| Per gross.... | $9.50 | 10.00 | 10.50 | 11.50 | 13.00 | 14.50 | 16.00 |

Assorted, 1¾, 3, 3½ inch.....per gross $12.00

One, dozen in a box.

---




ODD JOBS

## STANLEY'S "ODD JOBS"

This tool embraces in itself and when in combination with an ordinary Carpenter Rule: a Mitre Level, Spirit Level and Plumb; Try, Mitre and T Square; Marking and Mortise Gauge, Beam Compass, Inside Square for making boxes and frames.

No. **1**—Odd Jobs, Nickel-Plated with Level.....each $0.00

One in a box.

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## MASONS' PLUMB AND LEVEL

No. **35**—Patent, Adjustable, Masons' Plumb and Level, adapted also for Plumb Bob and Line. Length 42 inches.....per doz. 40.00

MASONS' PLUMB AND LEVEL




N . 35

# PLUMB BOBS



No. 2



No. 00

No. 2—Iron, Japanned, Adjusted Top, weight 9½ oz. ..... per doz. $1.00
" 00— " " " " " 1 lb. 2 oz. ..... " 1.90

No. 2, one dozen; No. 00, half-dozen in a box.



No. 4



Nos. 13 and 15

No. 4—Lead, Steel Pointed, weight 1¼ lbs. ..... per doz. $6.00
" 13— " Masons', Wired " 1 " ..... " 4.75
" 15— " " " " 2 " ..... " 8.00

Nos. 4 and 13, half-dozen; No. 15, quarter-dozen in a box.

## BRASS PLUMB BOBS

### CAST BRASS, STEEL POINTED, SCREW TOP.



Nos. 5 and 6

No. 5—Weight 6 oz. ..... per doz. $5.25
" 6— " 11½ " ..... " 4.80

Half-dozen in a box.

## STANLEY'S ADJUSTABLE PLUMB BOBS

No. 2—Weight 11½ oz., Steel Pointed, complete with Line and Reel ..... each $1.75



Half-size Cut of Stanley's No. 2

# STEEL RULES

**BROWN AND SHARPE MANUFACTURING CO'S**

## STANDARD STEEL RULES




| Size | 3 | 6 | 9 | 12 | 18 | 24 inch. |
|---|---|---|---|---|---|---|
| Each | $0 55 | 1.00 | 1.50 | 1.90 | 3.00 | 4 15 |

**GRADUATION**

No. 2—8; 10, 20, 50, 100; 12, 24, 48; 16, 32, 64.

No. 4—8, 16, 32, 64.




## WITH END GRADUATIONS

| Size | 3 | 4 | 6 | 9 | 12 inch. |
|---|---|---|---|---|---|
| Each | $0.55 | 0.70 | 1.00 | 1.50 | 1.90 |

In these Rules the ends are graduated on one side to 48ths and 100ths, and on the other side, as shown in cut, to 32nds and 56ths of an inch. The 32nds extend entirely across the rule.

The 3 in. Rules are graduated to 40ths instead of 100ths on the end. These Rules are furnished with No. 4 graduation only.

## RULES WITH METRIC MEASURE

| Size | 5 C.M. | 10 C.M. |
|---|---|---|
| Each | $0.40 | 0 70 |

First corners graduated to 1-5 m.m., the remaining corners to 1 m.m.

| Size | 20 C.M. | 30 C.M. |
|---|---|---|
| Each | $1.30 | 1.90 |

Five centimetres of first corner graduated to 1-5 m.m., the remainder of that corner together with the remaining corners graduated to 1 m.m.

| Size | 50 C.M. | 1 Metre. |
|---|---|---|
| Each | $3.00 | 12.00 |

Five centimetres on each end of first corner graduated to 1-5 m.m., the remainder of that corner together with the remaining corners graduated to 1 m.m.

Rules with combined Metric and English measure same price as Metric.

## TEMPERED STEEL RULES

**Every Rule is marked "Tempered."**

These Rules are about 1/20 inch thick

| Size | 4 | 6 | 9 | 12 | 18 inch. |
|---|---|---|---|---|---|
| Width | $\frac{5}{8}$ | $\frac{11}{16}$ | $\frac{7}{8}$ | $\frac{11}{16}$ | 1 " |
| Each | $0.70 | 1 00 | 1.50 | 1 90 | 3.00 |

Graduations—Nos. 2 or 4.

## NARROW TEMPERED STEEL RULES

**Every Rule is marked "Tempered."**

These Rules are about 1/20 inch thick, and about 7/32 inch wide, and graduated on one corner of each side only.

| Size | 4 | 6 inch. |
|---|---|---|
| Each | $0.70 | 1.00 |

Graduated in 32nds and 64ths, 64ths and 100ths, or 50ths and 100ths.

## FLEXIBLE STEEL RULES

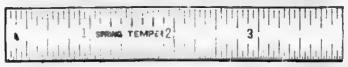
**Every Rule is marked "Tempered."**

Graduated on one side only.

| Size | 4 | 6 | 9 | 12 | 18 | 24 inch. |
|---|---|---|---|---|---|---|
| Each | $0.70 | 1 00 | 1.50 | 1.90 | 3.00 | 4.15 |

Graduated in 32nds and 64ths, 64ths and 100ths, or 50 ths and 100ths

## STANDARD STEEL RULES




| Size | 1 | 3 | 6 | 9 | 12 | 18 | 24 inch. |
|---|---|---|---|---|---|---|---|
| Each | $0.25 | 0.55 | 1.00 | 1.50 | 1.90 | 3.00 | 3.75 |

Graduated 8ths, 16ths, 32nds and 64ths. Other graduations to order.

## WITH END GRADUATIONS

| Size | 3 | 6 | 9 | 12 inch. |
|---|---|---|---|---|
| Each | $0.55 | 1.00 | 1.50 | 1.90 |

## RULES WITH METRIC MEASURE

| | | | |
|---|---|---|---|
| 5 C.M. | 1.9685 inch | each | $0.40 |
| 10 " | 3.9370 " | " | 0.75 |
| 15 " | 5.9055 " | " | 1.15 |
| 20 " | 7.8740 " | " | 1.50 |
| 25 " | 9.8425 " | " | 1.90 |
| 30 " | 11.8110 " | " | 2.25 |
| 40 " | 15.7480 " | " | 3.00 |
| 50 " | 19.6850 " | " | 3.75 |
| 60 " | 23.6220 " | " | 6.90 |

## RULES WITH COMBINED METRIC AND ENGLISH MEASURE

**Same dimensions and prices as Metric Rules.**

Rules graduated in the Metric System, or combining both the Metric and English measures, are not kept in stock. They can be supplied on short notice.

## SPRING TEMPERED STEEL RULES

| Length | 3 | 4 | 6 | 9 | 12 | 18 | 24 inch. |
|---|---|---|---|---|---|---|---|
| Width | $\frac{5}{8}$ | $\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{7}{8}$ | 1 | $1\frac{1}{8}$ | $1\frac{1}{4}$ " |
| Each | $0.55 | 0.70 | 1.00 | 1.50 | 1.90 | 3.00 | 3.75 |

Thickness—$\frac{3}{64}$ inch, or No. 18 gauge.

## NARROW STEEL RULES



| Size | 4 | 6 | 9 | 12 inch. |
|---|---|---|---|---|
| Each | $0.70 | 1.00 | 1.50 | 1.90 |

3/16 inch wide, No. 18 gauge, spring-tempered, graduated one corner each side whole length, either in 32nds and 64ths, 50ths and 100ths, or 64ths and 100ths.

## FLEXIBLE STEEL RULES




| Size | 4 | 6 | 9 | 12 | 18 | 24 inch. |
|---|---|---|---|---|---|---|
| Each | $0.70 | 1.00 | 1.50 | 1.90 | 3.00 | 3.75 |

Graduated on one side only, in either 32nds and 64ths, 64ths and 100ths, or 50ths and 100ths. 4, 6, 9 and 12 inch are $\frac{1}{2}$ inch wide; 18 and 24 inch are $\frac{3}{4}$ inch wide.

# STEEL RULES

## SQUARE STEEL RULES



| Size | 3 | 4 | 6 inch. |
|---|---|---|---|
| Each | $0.70 | 0.90 | 1.35 |

Graduated 8ths, 16ths, 32nds and 64ths.

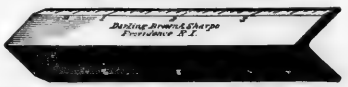
## TRIANGULAR STEEL RULES



| Size | 3 | 4 | 6 inch. |
|---|---|---|---|
| Each | $0.75 | 1.05 | 1.50 |

Graduated 16ths, 64ths and 100ths.

## KEY SEAT RULES



Parallel lines for key seats, mortises, etc., can be readily and accurately drawn with these rules on shafts not less than ¼ inch in diameter.

The edges are bevelled. One edge is graduated into 16ths, and the other into 32nds of an inch.

| Size | 4 | 6 | 8 inch. |
|---|---|---|---|
| Each | $3.75 | 4.50 | 5.65 |

## FOLDING RULES

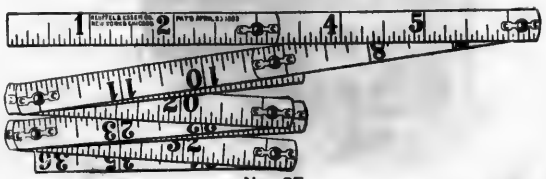


No. 31. ONE FOOT. FULL SIZE.

They are made of spring steel and will bend to a 3-inch circle.

| | | | | | | | | | | Rule only. | Rules with cases. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. 31—1 foot, | ⅜ | inch × | 26 | gauge, | 3 | inch joints, | 4 | fold, graduated 16ths on both sides | per doz. | $4.00 | $5.50 |
| " 31—2 " | ⅜ | " × | 26 | " | 3 | " | 8 | " " " " | " | 8.00 | 10.00 |
| " 41—1 " | ½ | " × | 26 | " | 4 | " | 3 | " " " " | " | 4.00 | 5.50 |
| " 41—2 " | ½ | " × | 26 | " | 4 | " | 6 | " " " " | " | 7.50 | 9.50 |
| " 41—3 " | ½ | " × | 26 | " | 4 | " | 9 | " " " " | " | 11.00 | 13.50 |

## SPRING JOINT STEEL RULES

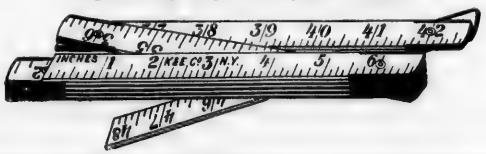


No. 27

These rules are made of carefully tempered spring steel, ⅜ inch wide and graduated on both sides in inches and sixteenths. They consist of alternate longer and shorter links, so that the rivets at the joint do not come on top of each other in the folded rule. This improvement admits of using much stouter rivets than ordinarily and still making a thinner folded rule than any other kind. The aligning springs at the joints hold the rule in a rigid straight line when it is opened, without in any way interfering with folding it.

| | | | | | | |
|---|---|---|---|---|---|---|
| No. 25—Steel Pocket Rule, | 1 | foot, | 4 | fold | per doz. | $5.00 |
| " 26— " | " | 2 " | 8 | " | " | 10.00 |
| " 27— " | " | 3 " | 12 | " | " | 15.00 |
| Sheathes for above | | | | | " | 1.00 |

## FOLDING BOXWOOD RULES



These rules are provided with spring joints, so that vertical or horizontal distances may be measured.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. 28—2 | feet, | 4 | fold, | graduated | ½, ¼, ⅛, 1/16 | inch to the foot | per doz. $4.40 |
| " 29—3 | " | 6 | " | " | ½, ¼, ⅛, 1/16 | " " | " 6.15 |
| " 30—4 | " | 8 | " | " | ½, ¼, ⅛, 1/16 | " " | " 8.40 |

# CHESTERMAN'S STEEL RULES




### GRADUATED ON ONE SIDE

| Size | | 3 | 4 | 6 | 12 inch. |
|---|---|---|---|---|---|
| No. **300D** | per doz. | $3.20 | 3.20 | 3.60 | 6.00 |
| " **310D** | " | .... | .... | 4.80 | 7.20 |

### GRADUATED BOTH SIDES

| Size | | 4 | 6 | 12 inch. |
|---|---|---|---|---|
| No. **326D** | per doz. | $4.80 | 5.60 | 8.00 |
| " **332D** | " | .... | 7.20 | 10.40 |

#### GRADUATIONS

No. **300D**, Top Edge, inches into 16ths; Bottom Edge, 3 inches into 32nds; ½ inch into 64ths; remainder into 8ths. No. **310D**, Top Edge, 3 inches into 20ths; 1 inch into 50ths; 1 inch into 100ths; remainder into 10ths.

No. **326D**, Top Edge, 3 inches into 24ths; 1 inch into 48ths; remainder into 12ths. Bottom Edge, 3 inches into 32nds; ½ inch into 64ths; remainder into 8ths. Lower Side Top Edge, 3 inches into 20ths; 1 inch into 50ths; remainder into 10ths. Lower Side Bottom Edge, inches into 16ths. No. **332D**, Top Edge, inches into 8ths; Bottom Edge, inches into 16ths; Lower Side Top Edge, inches into 32nds; Lower Side Bottom Edge, inches into 64ths.

## CHESTERMAN'S STEEL STRAIGHT EDGES

| | | Per doz. |
|---|---|---|
| No. **48**—12 × 1⅜ inch, 15G, not graduated, bright hardened steel, with one edge bevelled and hole at one end | | $10.50 |
| 24 × 1½ " 15G, " " " " " " " " | | 22.80 |

## BLACKSMITH RULES




No. **1660**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. **1651**—Marples' | 2 feet, | 2 fold, | Brass, | Button Joint, | ¾ inch wide | per doz. | $4.45 |
| " **1654**— | " | " | " | Acorn | 1⅛ " | " | 8.85 |
| " **1660**— | " | " | " | Iron | 1½ " | " | 3.00 |




No. **1661**

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. **1661**—Marples' | 2 feet, | 2 fold, | Elastic Steel, | Brass-Tipped Ends, | Etched Markings, | ¾ inch wide | | | | | per doz. | $6.95 |
| " **58**—Chesterman's | " | " | " | One-stop Joint Brass Ends | " | ¾ | " | " | " | 5.90 |
| " **240**— | " | " | " | Plain Ends, Etched Markings, | | ¾ | " | " | " | 4.75 |
| " **66**— | " | 1 foot, | Steel, | Etched Markings both sides, | ¾ inch wide, | 21 Gauge | | | | | " | 2.00 |
| " **60**—Lufkin's | 1 | " | " | " | ⅛ and ⅒ths, | ⅝ | " | " | 21 | " | " | 4.00 |
| " **60**— " | 2 | " | " | " | ⅛ and ⅒ths, | ¾ | " | " | 21 | " | " | 8.00 |
| " **62**— " | 1 | " | " | " | ⅛ and ⅒ths, | 1¼ | " | " | 16 | " | " | 8.00 |
| " **62**— " | 2 | " | " | " | ⅛ and ⅒ths, | 1¼ | " | " | 16 | " | " | 15.00 |
| " **62**— " | 3 | " | " | " | ⅛ and ⅒ths, | 1¼ | " | " | 16 | " | " | 22.00 |

# COMPARATIVE NUMBERS OF RULES

## BOXWOOD RULES

| Stanley's. | Chapin's. | Stephen's. | Standard. | List. |
|---|---|---|---|---|
| Nos. | Nos. | Nos. | Nos. | Per Doz. |
| 1 | 41 | .... | 1 | $ 7 00 |
| 2 | 42 | 13 | 2 | 8 00 |
| 4 | 44 | 15 | 4 | 10 00 |
| 5 | 45 | 17 | 5 | 16 00 |
| 6 | 50 | 16 | 6 | 18 00 |
| 8 | .... | .... | 8 | 4 50 |
| 12 | 48 | 14 | 12 | 14 00 |
| 13 | .... | .... | .... | 10 00 |
| 15 | 49 | 27 | 15 | 24 00 |
| 16 | 51 | 28 | 16 | 28 00 |
| 18 | 39 | 2 | 18 | 5 00 |
| 22 | 40 | 5 | 22 | 8 00 |
| 26 | 46 | 9 | 26 | 9 00 |
| 27 | 47 | .... | 27 | 12 00 |
| 29 | 38 | 1 | 27 | 3 50 |
| 32 | 72 | 98 | 32 | 12 00 |
| 32½ | 73 | 99 | 32½ | 20 00 |
| 36 | 70 | 95 | 36 | 7 00 |
| 36½ | 70½ | .... | 36½ | 12 00 |
| 42 | 85 | 31 | 42 | 6 00 |
| 43 | 85½ | 30 | 43 | 6 00 |
| 51 | 16 | 46 | 51 | 6 00 |
| 52 | 18 | 49¼ | 52 | 13 00 |
| 53 | 17 | 48 | 53 | 8 00 |
| 53½ | 17½ | 39 | 53½ | 20 00 |
| 54 | 19 | 49 | 54 | 16 00 |
| 55 | 6 | 73 | 55 | 4 00 |
| 56 | 7 | 74 | 56 | 6 00 |
| 57 | 9 | 75 | 57 | 12 00 |
| 58 | 96 | 33 | 58 | 13 00 |
| 58½ | .... | .... | 58½ | 3 60 |
| 59 | 20 | 50 | 59 | 9 00 |
| 60 | 21 | 52 | 60 | 21 00 |
| 61 | 11 | 42 | 61 | 5 00 |
| 61½ | 11½ | 44 | 61½ | 5 50 |
| 62 | 15 | 42½ | 62 | 15 00 |
| 62½ | 15½ | 42¾ | 62½ | 15 00 |
| 63 | 12 | 45 | 63 | 7 00 |
| 63½ | 13 | 44½ | 63½ | 8 00 |
| 64 | 3 | 72 | 64 | 5 00 |
| 65 | 2 | 71 | 65 | 3 50 |
| 65½ | 5 | 72½ | 65½ | 11 00 |
| 66 | 84 | .... | 66 | 8 00 |
| 66½ | .... | 32 | .... | 8 00 |
| 67 | 22 | 53 | 67 | 5 00 |
| 68 | 10 | 41 | 58 | 4 00 |
| 69 | 1 | 70 | 69 | 3 00 |
| 70 | 23 | 54 | 70 | 7 00 |
| 72 | 24 | 56 | 72 | 9 00 |
| 72½ | 6 | 54½ | 72½ | 18 00 |
| 73 | 27 | 57 | 73 | 9 00 |

## BOXWOOD RULES

| Stanley's. | Chapin's. | Stephen's. | Standard. | List. |
|---|---|---|---|---|
| Nos. | Nos. | Nos. | Nos. | Per Doz. |
| 75 | 28 | 59 | 75 | 11 00 |
| 76 | 30 | 60 | 76 | 20 00 |
| 77 | 31 | 61 | 77 | 12 00 |
| 78 | .... | .... | 78 | 20 00 |
| 78½ | 32 | 63 | 78½ | 24 00 |
| 79 | 34 | 64 | 79 | 11 00 |
| 81 | 36 | 66 | 81 | 13 00 |
| 82 | 37 | 67 | 82 | 22 00 |
| 83 | 33 | .... | 83 | 14 00 |
| 84 | 14 | 42¼ | 84 | 12 00 |
| 94 | .... | .... | .... | 48 00 |

## IVORY RULES

| | | | | |
|---|---|---|---|---|
| 38 | 74 | 95½ | 38 | 15 00 |
| 39 | 76 | 98½ | 39 | 38 00 |
| 40 | 77 | 99½ | 40 | 44 00 |
| 85 | 59 | 77 | 85 | 54 00 |
| 86 | 60 | 83 | 86 | 64 00 |
| 86½ | .... | .... | .... | 96 00 |
| 87 | 61 | 84 | 87 | 80 00 |
| 88 | 57 | 94 | 88 | 32 00 |
| 88½ | 56 | 93 | 88½ | 21 00 |
| 89 | 62 | 86 | 89 | 92 00 |
| 90 | 52 | 89 | 90 | 10 00 |
| 91 | 58 | 91½ | 91 | 23 00 |
| 92 | 55 | 91 | 92 | 17 00 |
| 92¼ | 54 | 90½ | 92½ | 14 00 |
| 95 | 64 | 87 | 95 | 102 00 |
| 97 | 67 | 88 | 97 | 116 00 |

## MISCELLANEOUS RULES

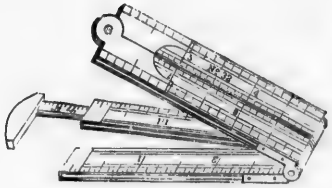
| | | | | |
|---|---|---|---|---|
| 33 | 82 | .... | 32 | 2 00 |
| 34 | 80 | .... | 34 | 3 00 |
| 35 | 81 | .... | 35 | 6 00 |
| 41 | 83 | .... | 41 | 3 50 |
| 43½ | 90½ | .... | 43½ | 12 00 |
| 44 | 92 | .... | 44 | 5 00 |
| 45 | 93 | .... | 45 | 7 00 |
| 45½ | 94½ | .... | 45½ | 18 00 |
| 46 | 87O | .... | 46 | 8 00 |
| 46½ | 87S | .... | 46½ | 8 00 |
| 47 | 88G | .... | 47 | 12 00 |
| 47½ | 88S | .... | 47½ | 12 00 |
| 48 | 89 | .... | 48 | 12 00 |
| 48½ | 89½ | .... | 48½ | 15 00 |

# BOXWOOD RULES

## CALIPER RULES




No. 36



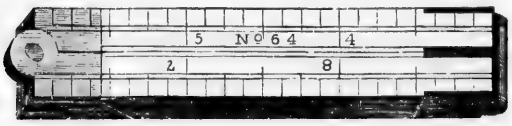
No. 32

| | | |
|---|---|---|
| No. **13** —Six Inch, Square Joint, Two Fold, 8ths and 16ths, 1½ inch wide | per doz. | $10.00 |
| " **13** 1/2— " " " " " " " " " 1½ " | " | 12.00 |
| " **36** — " " " " " 8ths, 10ths, 12ths and 16ths, ⅞ inch wide | " | 7.00 |
| " **32** —One Foot, Arch Joint, Edge Plate, Four Fold, 8ths, 10ths, 12ths and 16ths, 1 inch wide | " | 12.00 |
| " **32** 1/2— " " " Bound " " " " " " " " " | " | 20.00 |

## ONE FOOT, FOUR FOLD, NARROW



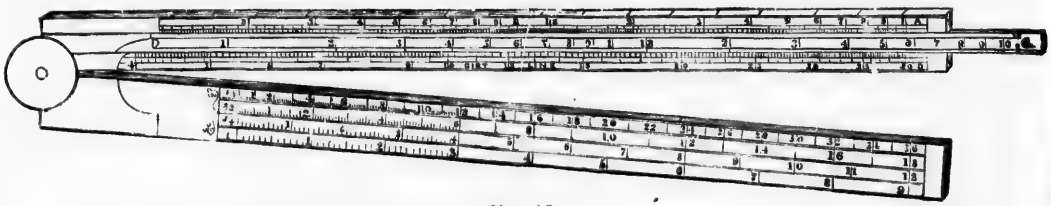

No. 69




No. 64

| | | |
|---|---|---|
| No. **69**—Round Joint, Middle Plates, 8ths and 16ths, ⅝ inch wide | per doz. | $3.00 |
| " **65**—Square " " " " " " " " " | " | 3.50 |
| " **64**— " " Edge " " " " " " " | " | 5.00 |
| " **56**—Arch " " " " " " " " " | " | 6.00 |

## TWO FEET, TWO FOLD



No. 12

| | | |
|---|---|---|
| No. **26**—Square Joint, Slide, 8ths, 10ths and 16ths, Octagonal Scales, 1½ inch wide | per doz. | $ 9.00 |
| " **2**—Arch " Bitted " " " " " " " " " | " | 8.00 |
| " **4**— " " (Plates on outside of wood), Bitted, extra thin, 8ths and 16ths, Drafting and Octagonal Scales, 1½ inch wide | " | 10.00 |
| " **18**—Square Joint, 8ths and 16ths, 1½ inch wide | " | 5.00 |
| " **12**—Arch " Bitted, Gunther's Slide, 8ths, 10ths, 16ths and 100ths of a foot, Drafting and Octagonal Scales, 1½ inch wide | " | 14.00 |

## TWO FEET, SIX FOLD

No. **58**—Arch Joint, Edge Plates, 8ths, 10ths, 12ths and 16ths, ¾ inch wide ..... per doz. $13.00

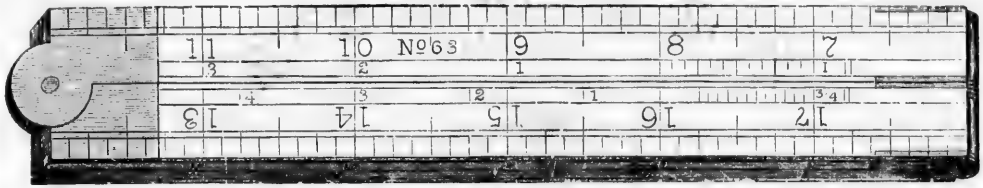
# BOXWOOD RULES

## TWO FEET, FOUR FOLD, NARROW



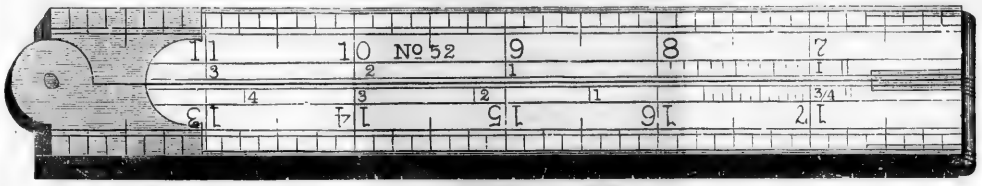

**No. 68**

No. **68**—Round Joint, Middle Plates, 8ths and 16ths, 1 inch wide ..... per doz. $4.00
" **61**—Square " " " 8ths " 16ths, 1 " " ..... " " 5.00
" **51**—Arch " " " 8ths, 10ths, 12ths and 16ths, Drafting Scales, 1 inch wide ..... " " 6.00



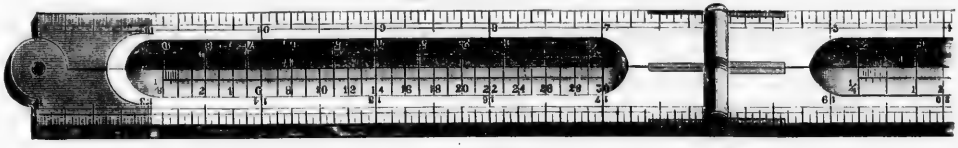

**No. 63**

No. **63**—Square Joint, Edge Plates, 8ths, 10ths, 12ths and 16ths, Drafting Scales, 1 inch wide ..... per doz. $7.00
" **53**—Arch " " " 8ths, 10ths, 12ths " 16ths, " " 1 " " ..... " " 8.00
" **59**—Double Arch Joint, Bitted, 8ths, 10ths, 12ths " 16ths, " " 1 " " ..... " " 9.00




**No. 52**

No. **52**—Arch Joint, Half Bound, 8ths, 10ths, 12ths and 16ths, Drafting Scales, 1 inch wide ..... per doz. $13.00
" **84**—Square " " " 8ths, 10ths, 12ths " 16ths, " " 1 " " ..... " " 12.00
" **62**— " " " 8ths, 10ths, 12ths " 16ths, " " 1 " " ..... " " 15.00
" **54**—Arch " " 8ths, 10ths, 12ths " 16ths, " " 1 " " ..... " " 16.00
" **60**—Double Arch Joint " 8ths, 10ths, 12ths " 16ths, " " 1 " " ..... " " 21.00



**No. 53½**

No. **53½**—Arch Joint, Edge Plates, 8ths, 10ths, 12ths and 16ths, with inside Bevelled Edge, and Architects' Drafting Scales, 1 inch wide ..... per doz. $15.00

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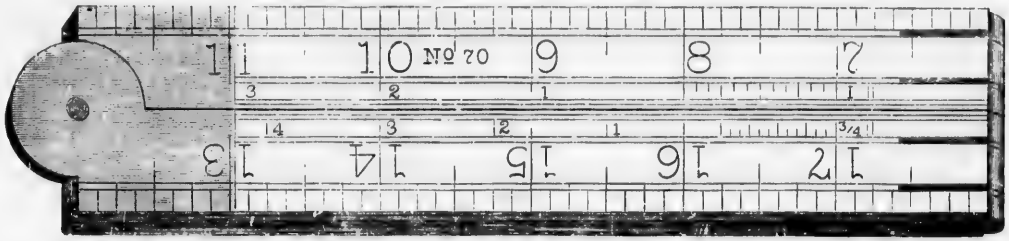
## RABONE BOXWOOD RULES

### TWO FEET, FOUR FOLD

No. **1106**—Arch Joint, Bevel Edge ..... per doz. 28.00
" **1118**— " " " " (with Edge Plates) ..... " " 34.25

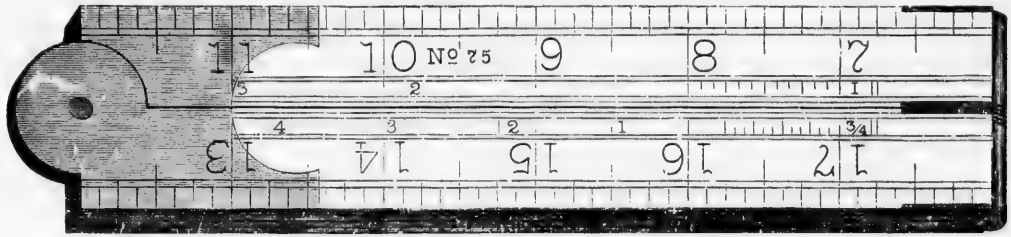
# BOXWOOD RULES

## TWO FEET, FOUR FOLD, BROAD



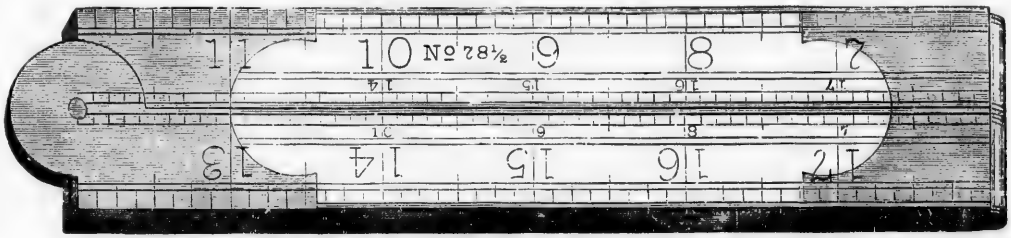

No. 70

No. **70**—Square Joint, Middle Plates, 8ths and 16ths, Drafting Scales, 1¼ inch wide ..... per doz. $ 7.00
" **72**— " " Edge " 8ths " 16ths, " " " " ..... " 9.00
" **72½**- " " Bound ..... 8ths " 16ths, " " " " ..... " 18.00




No. 75

No. **73**—Arch Joint, Middle Plates, 8ths, 10ths and 16ths, Drafting Scales, 1¾ inch wide ..... per doz. $ 9.00
" **75**— " " Edge " 8ths, 10ths " 16ths, " " " " ..... " 11.00
" **81**— " " " " 12ths and 16ths " " " " ..... " 13.00
" **76**— " " Bound ..... 8ths, 10ths and 16ths " " " " ..... " 20.00




No. 78½

No. **77**—Double Arch Joint, Bitted, 8ths, 10ths and 16ths, Drafting Scales, 1⅝ inch wide ..... per doz. $12.00
" **78½**- " " " Bound, 8ths, 10ths " 16ths, " " " " ..... " 24.00
Half-dozen in a box.

## THREE FEET, FOUR FOLD

No. **66½**—Arch Joint, Middle Plates, 8ths and 16ths, 1 inch wide ..... per doz. 8.00

## PATTERNMAKERS' SHRINKAGE RULES

No. **30**—Boxwood, 8ths and 16ths, 24¼ inches long ..... per doz. 15.00
" **31**— " Two Fold, Triple-plated Edge Plates, 8ths and 16ths, 24¼ inches long ..... " 18.00

# IVORY RULES




**No. 38, with Caliper.**

### TWO FEET, FOUR FOLD

| | | | |
|---|---|---|---|
| No. **85**—Square Joint, German Silver, Edge Plates, 8ths, 10ths, 12ths and 16ths, $\frac{7}{8}$ inch wide | per doz. | | $54.00 |
| " **86**—Arch " " " " " 8ths, 10ths, 12ths " 16ths, 100ths foot, Drafting Scales, 1 inch wide | per doz. | | 64.00 |

### ONE FOOT, FOUR FOLD

| | | | |
|---|---|---|---|
| No. **39**—Square Joint, German Silver, Edge Plates, 8ths, 10ths, 12ths and 16ths, $\frac{7}{8}$ inch wide | per doz. | | 38.00 |
| " **88**—Arch " " " Bound, 8ths and 16ths, $\frac{3}{4}$ " " | " | " | 32.00 |
| " **88½**- " " " " Edge Plates, 8ths " 16ths, $\frac{3}{4}$ " " | " | " | 21.00 |
| " **90**—Round " Brass Middle " 8ths " 16ths, $\frac{1}{2}$ " " | " | " | 10.00 |

### SIX INCH, TWO FOLD

| | | | |
|---|---|---|---|
| No. **38**—Square Joint, German Silver, Edge Plates, with Calliper, $\frac{7}{8}$ inch wide | per doz. | | 15.00 |

## IMPROVED DESK RULERS



| | | | |
|---|---|---|---|
| No. **1**—Maple Colored Grooves, 12 inches long, 1⅜ inch wide | per doz. | | $1.65 |
| " **2**— " " " 18 " " 1¾ " " | " | " | 2.50 |
| " **3**—Boxwood, Grooves not colored, 12 inches long, 1⅜ inch wide | " | " | 6.60 |

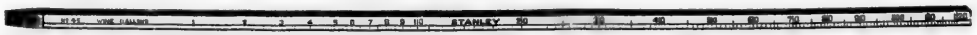
## COUNTER YARD MEASURES



**Nos. 1 and 2**

| | | | |
|---|---|---|---|
| No. **1**—Brass (see engraving) | per doz. | | $4.00 |
| " **2**—Nickel-Plated " " | " | " | 4.50 |
| " **72**—Brass, for screwing to Counter, marked inches in 8ths | " | " | 7.00 |
| " **33**—Yard Stick, Polished | " | " | 1.50 |
| " **41**— " " Brass Tips, Polished | " | " | 2.50 |
| " **50**— " " Hickory, Brass-capped Ends, Polished | " | " | 3.20 |
| Government Inspection, for Wood Measures, net | each | | $0.05 |
| " " " Brass " " | " | | 0.08 |

## GAUGING RODS




No. **1**—48 inch Rod, with Wine Measure on one side, Imperial Standard on the other side, and inches on the two remaining sides ..... each $2.25

" **2**—48 inch Rod, with Imperial Standard on one side, inches on two sides, and the fourth side blank " 2.15

**DIRECTIONS**—To ascertain the capacity of a barrel, insert the Rod in the bunghole in a slanting direction to the chime. Note point on the rod which comes exactly in the middle of the bunghole on a line with the under side of the stave, then reverse the process at the other end. If the bunghole is exactly in the middle of the barrel, the capacity will be shown. If the measurements differ, add them together and divide by two, and you have the number of gallons the barrel will hold.

## WANTAGE RODS




No. **44**—8 tables, or lines, for Barrels 16, 23, 32, 42, 48, 84, 110 and 120 gallons ..... per doz. $3.75

**DIRECTIONS**—Having capacity of the barrel, insert the Wantage Rod perpendicularly in the bunghole, holding it so that the brass lip points towards the head of the barrel; lower until lip comes just under the inner side of stave. The mark where the rod is wet on the line which has the full capacity of the barrel at the top, shows the number of gallons that are wanting to fill it up.

# HICKORY BOARD RULES



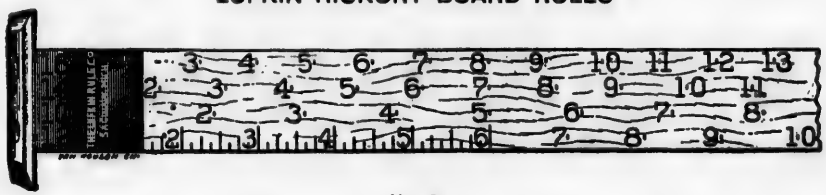
| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. **1**—3 Tier, | Brass Head, | Handled, | 3 | foot | long, | marked | 9, 10, 11 and 12, 14, 16 | per doz. | $11.60 |
| " **3**—3 " | Square Steel Head, | " | 3 | " | " | " | 9, 10, 13 and 12, 14, 16 | " | 18.85 |
| " **3½**—3 " | " | " | 3 | " | " | " | 12, 14, 16 and 18, 20, 22 | " | 21.75 |
| " **4**—4 " | " | " | 3 | " | " | " | 9, 10, 11, 13 and 12, 14, 16, 81 | " | 20.30 |
| " **5**—4 " | " | " | 3 | " | " | " | 13, 11, 10, 12, and 14, 15, 16, 9 | " | 17.40 |
| " **17**—5 " | " | " | 3 | " | " | " | 7, 8, 9, 10, 11 and 12, 13, 14, 15, 16 | " | 29.00 |



ACME HANDLE

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. **20**—3 Tier, | Square Steel Head, | Acme Handle, | | | | | marked | 9, 10, 13 and 12, 14, 16 | per doz. | 20.30 |
| " **21**—3 " | Diamond " | " | " | " | " | " | | 8, 10, 18 and 12, 14, 16 | " | 20.30 |
| " **22**—4 " | Square " | " | " | " | " | " | | 8, 9, 10, 11 and 12, 14, 16, 18 | " | 21.75 |
| " **23**—4 " | Diamond " | " | " | " | " | " | | 8, 9, 10, 11 and 12, 14, 16, 18 | " | 23 20 |
| " **24**—5 " | Square " | " | " | " | " | " | | 7, 8, 9, 10, 11 and 12, 13, 14, 15, 16 | " | 26.10 |
| " **25**—5 " | Diamond " | " | " | " | " | " | | 7, 8, 9, 10, 11 and 12, 13, 14, 15, 16 | " | 23.20 |

## LUFKIN HICKORY BOARD RULES



No. 8

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. **2**—3 Tier, | 3 | foot, | Extra Heavy, | Brazed Square Head, | | | marked | 8, 10, 18 and 12, 14, 16 | per doz. | 25.00 |
| " **7**—4 " | 3 | " | Patent Socket, | Square Steel | " | " | | 8, 10, 20, 22 and 12, 14, 16, 18 | " | 23.00 |
| " **8**—4 " | 3 | " | Brazed, | Square Steel Head, | | " | | 9, 11, 13, 15 and 12, 10, 14, 16 | " | 25.00 |
| " **10**—5 " | 3 | " | Patent Socket, | Square Steel Head | | " | | 7, 8, 9, 10, 11 and 12, 13, 14, 15, 16 | " | 30.00 |

## SPRING STEEL BOARD RULES



| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. **52**—3 Tier, | 3 | foot, | marked | same | as | Hickory | Rule | No. **2** | per doz. | 40.50 |
| " **58**—4 " | 3 | " | " | " | " | " | " | " **7** | " | 43.90 |
| " **59**—5 " | 3 | " | " | " | " | " | " | " **10** | " | 47.25 |

These Rules are Nickel-plated and Lacquered, and provided with Wood Handle and Leather Slide.

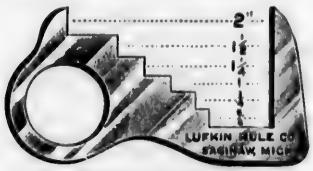
## LOG RULES



No. 48½

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. **48½**—Octagon | Walking Cane, | 3 | foot, | Doyle, | Cast Brass | Head and | Tip | | per doz. | $11.00 |
| " **2**— " | measures to 36 in. | Diameter, | Doyle or | Scribner | | | | | " | 11.60 |
| " **1**—Flat, | 3 lines, | each side | measures | to 44 in. | Diameter, | Doyle or | Scribner, | or combined | " | 18.00 |
| " **2**— " | 3 " | " | " | " | 36 " | " | " | " | " | 12.00 |

## LUMBER GAUGES




Nickel-plated for Vest Pocket.

No. **00**—Measures ⅛ to 2 inches ..... per doz. $6.75

## STEEL TIMBER GAUGES



**30** inches long ..... each $2.50

## BENTON TALLY REGISTERS



Full Size.

The Register in use is held in position as shown in the cut. The middle finger of the left hand is passed through the ring on the back to prevent accidental dropping from the hand and to better hold it in position so as to bring the pusher directly under the thumb.

No. **0**—Nickel-plated ..... per doz. $45.00



## TIMBER SCRIBES



No. **1894**—Ottawa Pattern, Swan Neck ..... per doz. $6.75

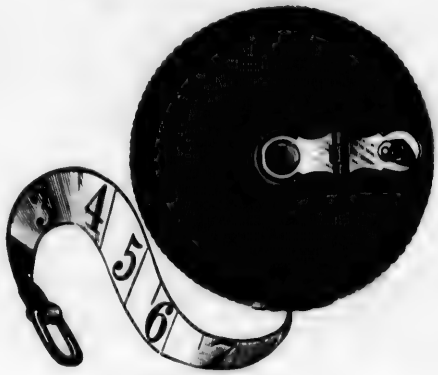


No. **1895**—To work a circle ..... per doz. 0.25

" **8866**—Pocket Timber Scribe, 3 inch Stag Handle containing one 2½ inch Folding Scriber and one 2½ inch Knife Blade ..... per doz. 11.35

# MEASURING TAPES

## CHESTERMAN'S PATENT




IN LEATHER CASES

### WITH PATENT METALLIC TAPES

Tapes ⅝ inch wide, marked feet and inches on one side, links and poles on the other.

| Length | | 33 | 50 | 66 | 100 | feet. |
|---|---|---|---|---|---|---|
| No. **1820**—With Brass Folding Handles | each | $1.80 | 2.15 | 2.55 | 3.60 | |
| " **1820**—Marked in feet and 10ths | " | .... | 2.15 | .... | 3.60 | |
| " **1821**—With Brass Flush Handles | " | 2.05 | 2.45 | 2.90 | 4.00 | |
| " **1860**—Tapes only without Cases | " | .... | 1.30 | 1.60 | .... | |

### WITH LINEN TAPES

Tapes ⅝ inch wide, marked feet and inches on one side, links and poles on the other.

| Length | | 33 | 50 | 66 | 100 | feet. |
|---|---|---|---|---|---|---|
| No. **1822**—With Brass Folding Handles | each | $1.10 | 1.35 | 1.60 | 2.15 | |
| " **1861**—Tapes only without Case | " | .... | 0.70 | 0.85 | .... | |

## LEATHER CASED TAPE LINES

Tapes ½ inch wide, marked feet and inches.

| Length | | 33 | 66 | 100 | feet. |
|---|---|---|---|---|---|
| No. **1063**—Black, Brass Lined, Folding Handles | per doz. | $4.10 | 5.70 | .... | |
| " **C1132**—White " " " " " | " | .... | 3.95 | .... | |
| " **1992**—Russet, all Leather Cases, Folding Handles | " | .... | 10.85 | 14.50 | |
| " **3702**—Black " " " " " | " | .... | 7.75 | .... | |

## TIMBER GIRTHING TAPES

No. **119**—Without Case, Best Linen Tapes, ⅝ inch wide, girth both sides ..... per doz. $6.00

## TAILORS' TAPES

No. **3**—Linen, 60 inches long, ½ inch wide, ⅛ths on one side ..... per gross $6.00

## CHESTERMAN'S POCKET STEEL TAPES



Brass Cases, Spring Wind, with Stop.

| Length | | 3 | 6 | 9 | 12 | 18 | feet. |
|---|---|---|---|---|---|---|---|
| No. **1810** | per doz. | $11.20 | 16.80 | 23.25 | 27.25 | 38.40 | |

# MEASURING TAPES



## CHESTERMAN'S STEEL TAPE LINES

In leather cases, with brass Flush Handles, Tapes ⅜ inch wide, marked feet, inches and ⅛ths on one side, and links and poles on the other.

| Length | 33 | 50 | 66 | 100 | feet |
|---|---|---|---|---|---|
| No. **1840** ..... each | $4.10 | 5.85 | 6.95 | 9.70 | |

## CHESTERMAN'S STEEL TAPE LINES

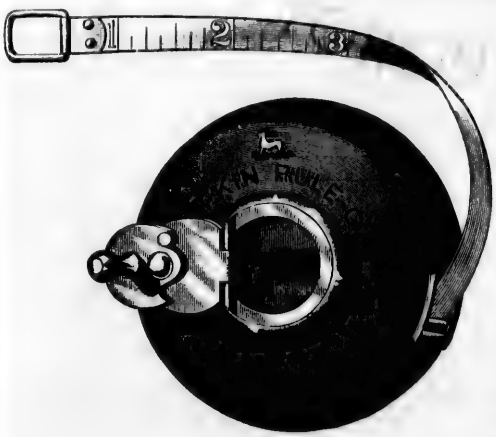
### FOR SURVEYORS



In enamelled metal cases, with folding handles.

No. **157**—Steel Tape ½ inch wide, marked feet and $\frac{1}{10}$ths, on one side only ..... each $6.00
" **158** " " ½ " " " $\frac{1}{10}$ths, " " ..... " 6.00

## LUFKIN'S STEEL TAPE LINES



### IN LEATHER CASES

Double Folding Flush Handle, ⅜ inch Tapes, marked feet, inches and ⅛ths on one side, links and poles on other.

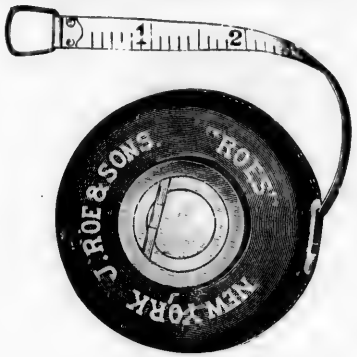
| Nos | 200 | 201 | 203 | 204 | |
|---|---|---|---|---|---|
| Length | 25 | 33 | 50 | 66 | feet |
| Each | $5.65 | 6.50 | 9.00 | 11.50 | |

### IN NICKEL-PLATED BRASS CASES

Flush Handles, ⅜ Tapes, marked feet, inches and ⅛ths, one side.

| Nos | 240 | 245 | 246 | |
|---|---|---|---|---|
| Length | 25 | 75 | 100 | feet |
| Each | $4.10 | 6.60 | 8.45 | |

# ROE'S STEEL MEASURING TAPES




Nos. **101** to **115**

## TAPES ½ INCH WIDE

Leather Cases, Flush Handles, Nickel-Plated Trimmings.

| Length | | | | | **33** | **50** | **66** | **100** feet. |
|---|---|---|---|---|---|---|---|---|
| No. **101**— | Feet | divided in | 12ths | each | 86.00 | 8.10 | 10.20 | 14.60 |
| " **102**— | " | " | 10ths, with | Links " | 6.60 | 9.00 | 11.40 | 16.20 |
| " **103**— | " | " | 12ths, " | " " | 6.60 | 9.00 | 11.40 | 16.20 |
| " **104**— | " | " | 12ths, " | Metre " | 6.60 | 9.00 | 11.40 | 16.20 |
| " **105**— | " | " | 10ths, " | " " | 6.60 | 9.00 | 11.40 | 16.20 |

## TAPES ⅜ INCH WIDE

Leather Cases, Flush Handles, Nickel-Plated Trimmings.

| Length | | | | | **33** | **50** | **66** | **100** feet. |
|---|---|---|---|---|---|---|---|---|
| No. **111**— | Feet | divided in | 12ths | each | 85.40 | 7.30 | 9.20 | 12.85 |
| " **112**— | " | " | 10ths, with | Links " | 6.00 | 8.20 | 10.40 | 14.65 |
| " **113**— | " | " | 12ths, " | " " | 6.00 | 8.20 | 10.40 | 14.65 |
| " **114**— | " | " | 12ths, " | Metre " | 6.00 | 8.20 | 10.40 | 14.65 |
| " **115**— | " | " | 10ths, " | " " | 6.00 | 8.20 | 10.40 | 14.65 |




No. **250**

## TAPES ⅜ INCH WIDE

Nickel-Plated Brass Cases, marked one side only.

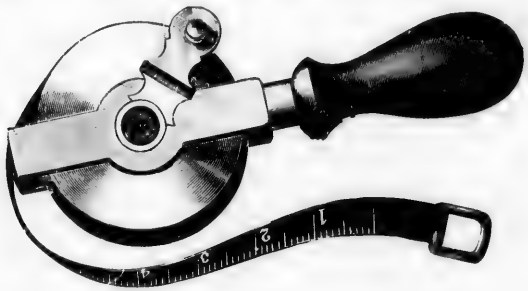
| Length | | | | | **25** | **50** | **75** | **100** feet. |
|---|---|---|---|---|---|---|---|---|
| No. **250**— | Feet | divided in | inches and | 8ths each | 84.45 | 5.50 | 7.20 | 9.30 |
| " **251**— | " | " | 10ths " | 100ths " | 4.45 | 5.50 | 7.20 | 9.30 |

## TAPES 5/16 INCH WIDE

Japanned Metal Cases, Folding Handle.

| Length | | | | | **33** | **50** | **66** | **100** feet. |
|---|---|---|---|---|---|---|---|---|
| No. **202**— | Feet | divided in | 10ths, with | Links each | 85.40 | 6.90 | 9.60 | 14.10 |
| " **204**— | " | " | 10ths, " | Metre " | 5.40 | 6.90 | 9.60 | 14.10 |

# ROE'S STEEL TAPES ON METAL FRAME

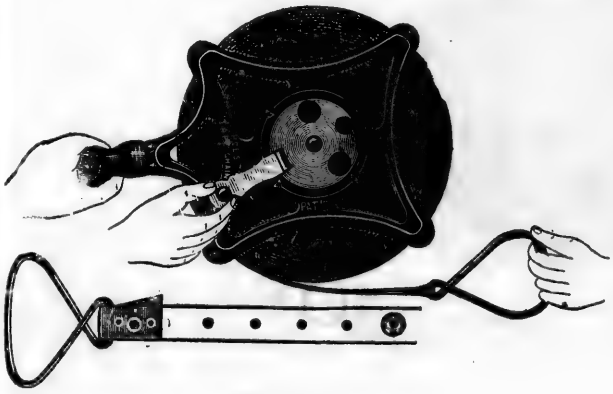


Tapes ½ inch wide, Rings at both ends, not attached to Frame.

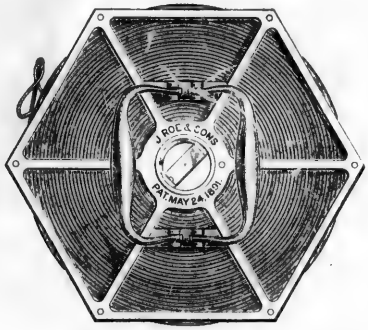
| Length | 50 | 66 | 100 feet. |
|---|---|---|---|
| No. **126**—Feet divided in 12ths ..... each | $6.60 | 8.70 | 12.60 |
| " **127**— " " 10ths, with Links ..... " | 7.50 | 9.90 | 14.40 |
| " **128**— " " 12ths, " ..... " | 7.50 | 9.90 | 14.40 |
| " **129**— " " 10ths, with Metre ..... " | 8.40 | 12.00 | 16.80 |
| " **130**— " " 12ths, " ..... " | 8.40 | 12.00 | 16.80 |

## ROE'S STEEL CHAINS

On Patent Electric Reel.



Nos. 1A to 5

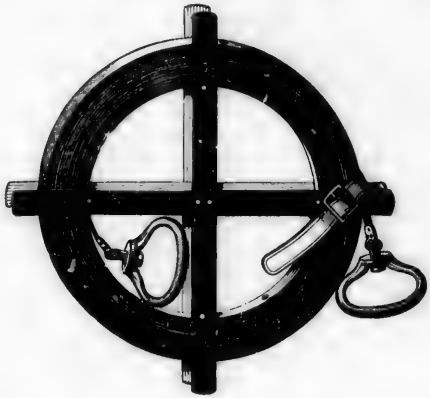



Nos. 30 and 31

| | Plain. | Aluminum Plated. |
|---|---|---|
| No. **1A**—100 feet long, every foot, end feet in 10ths ..... each | $6.00 | 7.20 |
| " **1B**—100 " " " " " inches ..... " | 6.00 | 7.20 |
| " **2**—100 " " 5 feet, " 10ths ..... " | 4.80 | 6.00 |
| " **3**—100 " " 5 " " inches ..... " | 4.80 | 6.00 |
| " **5**— 66 " in rods and 10ths of a rod ..... " | 6.00 | 7.20 |
| " **11A**—200 " every foot, end feet in 10ths ..... " | 9.00 | 10.80 |
| " **11B**—200 " " " " " inches ..... " | 9.00 | 10.80 |
| " **30**—300 " " " " 10ths or inches ..... " | 12.00 | 14.40 |
| " **31**—300 " " 5 feet, " " " ..... " | 9.60 | 12.00 |

These Tapes are made of superior steel, about ¼ inch wide, graduated every foot or link by brass rivets, and each end foot in 10ths or inches. Every 5 feet or links has a brass clasp with numbers, and every 10 feet or links has a copper clasp with numbers indelibly stamped on both sides. This style of Chain can be supplied in 10, 15, 20, 25, or 50 metres long. Prices on application.

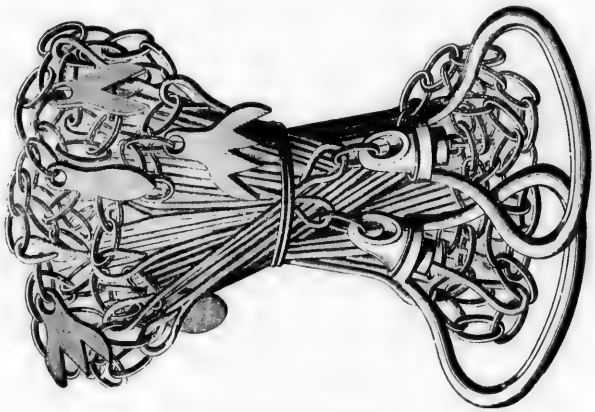
# CHESTERMAN'S STEEL BAND MEASURING CHAINS






No. **2120.** In Case.

| Length | **50** | **66** | **100** feet. |
|---|---|---|---|
| No. **2109**—Divided into Links, and Numbered at every Ten Links, Width of Band $\frac{5}{8}$ inch | .... | $6.65 | .... |
| " **2111**—Divided into Feet, and Numbered at every Ten Feet, Width of Band $\frac{1}{2}$ inch | $3.55 | .... | .... |
| " **2112**—Divided into Feet, and Numbered at every Ten Feet, Width of Band $\frac{5}{8}$ inch | .... | .... | $8.15 |
| " **2113**—Divided into Feet, and Numbered at every Ten Feet, Width of Band $\frac{3}{4}$ inch | .... | .... | 9.65 |
| " **2120**—Etched Feet and Inches and $\frac{1}{8}$ths, one side links the other, $\frac{5}{8}$ inch wide | 7.80 | .... | 14.00 |
| " **2120**—In Case as shown above | .... | 11.00 | .... |
| " **2120**—Etched Feet and ($\frac{1}{10}$) tenths, one side links the other, $\frac{5}{8}$ inch wide | 7.80 | .... | 14.00 |



## LAND CHAINS

Divided into Links and Tallied at every Ten Links.

| Length | **50** | **66** | **100** feet. |
|---|---|---|---|
| No. **61**—Best No. 12 Steel Wire, Japanned, Three Oval Links, Brass Swivel Handles, each | $3.15 | $5.00 | $5.75 |
| " **62**—Best No. 8 Iron Wire, Three Oval Links, Brass Swivel Handles | .... | 2.90 | 3.25 |
| " **62½**—Best No. 8 Iron Wire, Two Oval Links, Brass Swivel Handles | .... | 2.60 | .... |

## SURVEYORS' PINS

No. **259**—17 inches long, 2-inch Ring, 11 to Set ..... per set $0.75

# CAST STEEL TANGED FIRMER CHISELS



| Size | 1/8 | 3/16 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1 1/8 | 1 1/4 | 1 1/2 | 1 3/4 | 2 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length of Blade | 4 1/8 | 4 1/8 | 4 1/8 | 4 1/2 | 4 1/8 | 4 1/2 | 4 1/2 | 5 1/8 | 5 1/2 | 5 1/8 | 5 1/2 | 6 1/8 | 6 1/2 | 6 1/2 | 7 | 7 1/2 | " |
| Per dozen | $1.35 | 1.35 | 1.35 | 1.45 | 1.50 | 1.70 | 1.75 | 1.95 | 2.10 | 2.40 | 2.55 | 3.20 | 3.50 | 4.35 | 5.30 | 6.40 | |

In Sets of 12 Chisels, 1/8 to 1 1/2 inch ..... per set $2.25
" 12 " 1/8 to 2 " ..... " 3.00

## TANGED FIRMER CHISELS

### BEVEL BACK



| Size | 3/16 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1 1/8 | 1 1/4 | 1 1/2 | 1 3/4 | 2 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length of Blade | 4 | 4 1/2 | 4 1/2 | 4 1/2 | 4 1/2 | 4 1/2 | 5 1/2 | 5 1/2 | 5 1/2 | 5 1/2 | 5 1/2 | 6 1/2 | 6 1/2 | 6 1/2 | 7 1/2 | " |
| Per dozen | $2.10 | 2.10 | 2.20 | 2.30 | 2 45 | 2.50 | 2.75 | 2.90 | 3.25 | 3.45 | 4.20 | 4.50 | 5.60 | 6.90 | 8 15 | |

In Sets of 12 Chisels, 1/8 to 1 1/2 inch ..... per set $3.15
" 12 " 1/8 to 2 " ..... " 4.10

## TANGED FIRMER CHISELS, HANDLED

### BEVEL BACK



No. 215—In Sets, 1/8 to 2 inch, with Octagon Boxwood Handles ..... per set $5.25
" 215 1/2 " " 1/8 to 2 inch, " " " Bevelled Back ..... " 6.35

## CAST STEEL TANGED PARING CHISELS



| Size | 1/8 | 3/16 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1 1/8 | 1 1/4 | 1 1/2 | 1 3/4 | 2 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length of Blade | 7 1/2 | 7 1/2 | 7 1/2 | 8 | 8 | 8 1/2 | 8 1/2 | 8 1/2 | 8 1/2 | 9 1/2 | 9 1/2 | 9 1/2 | 9 1/2 | 10 1/2 | 10 1/2 | 11 1/2 | " |
| Per dozen | $2.40 | 2.40 | 2.40 | 2.50 | 2.50 | 2.75 | 2.75 | 3.05 | 3.45 | 3.70 | 4.50 | 5.15 | 6.10 | 7.35 | 8.65 | 10.75 | |

In Sets of 12 Chisels, 1/8 to 2 inch ..... per set $5.15

## TANGED PARING CHISELS, HANDLED

No. 222 1/2—In Sets, 1/8 to 2 inch, with Boxwood Handles ..... per set $8.25

## TANGED PARING CHISELS

### BEVELLED BACK

| Size | 1/8 | 3/16 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1 1/8 | 1 1/4 | 1 1/2 | 1 3/4 | 2 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length of Blade | 8 | 8 | 8 | 8 1/2 | 8 1/2 | 8 1/2 | 8 3/4 | 8 1/2 | 9 | 9 1/2 | 9 1/2 | 9 1/2 | 10 | 10 1/2 | 10 3/4 | 11 1/2 | " |
| Per dozen | $3.30 | 3.30 | 3.30 | 3.40 | 3.40 | 3.65 | 3.65 | 4.05 | 4.45 | 4.95 | 5.75 | 6.70 | 7.35 | 8.95 | 10.70 | 12.95 | |

In Sets of 12 Chisels, 1/8 to 2 inch ..... per set $6.50

Chisels priced by the dozen in quarter and half-dozen packages.

# CHISELS

## LONG THIN C. S. PARING CHISELS, HANDLED

### BEVELLED BACK



No. **212**—In Sets, $\frac{1}{8}$ to 2 inch, with Octagon Beech Handles ..... per set $8.00
" **212½**- " $\frac{1}{8}$ to 2 " " " Boxwood " ..... " 9.70
" **213**— " $\frac{1}{8}$ to 2 " " " Beech " ..... " 8.00
" **213½**- " $\frac{1}{8}$ to 2 " " " Boxwood " ..... " 9.70

## MILLWRIGHTS' CAST STEEL CHISELS

### 10-INCH BLADE



| Size | ¼ | 5/16 | ⅜ | 7/16 | ½ | 9/16 | ⅝ | 11/16 | ¾ | ⅞ | **1** | 1⅛ | 1¼ | 1½ | 1¾ | **2** | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Per dozen | $3.60 | 4.00 | 4.00 | 4.65 | 4.65 | 5.15 | 5.15 | 5.60 | 5.60 | 6.60 | 7.20 | 8.00 | 8.50 | 10.25 | 11.75 | 15.20 | |

In Sets of 12 Chisels, $\frac{1}{4}$ to 2 inch ..... per set $87.25

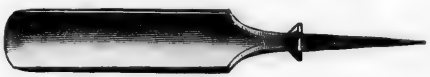
## CAST STEEL TANGED TURNING CHISELS



| Size | ¼ | 5/16 | ⅜ | 7/16 | ½ | ⅝ | ¾ | ⅞ | **1** | 1⅛ | 1¼ | 1½ | 1¾ | **2** | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length of Blade | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6½ | 6½ | 6½ | 6¾ | 6¾ | 7 | 7 | " |
| Per dozen | $1.95 | 2.10 | 2.10 | 2.35 | 2.35 | 2.60 | 2.90 | 3.20 | 3.70 | 4.15 | 4.65 | 5.95 | 7.20 | 8.50 | |

In Sets of 12 Chisels, $\frac{1}{4}$ to 2 inch ..... per set $84.35

## CAST STEEL TANGED FIRMER GOUGES



| Size | 1/8 | 3/16 | ¼ | 5/16 | ⅜ | 7/16 | ½ | ⅝ | ¾ | ⅞ | **1** | 1⅛ | 1¼ | 1½ | 1¾ | **2** | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length of Blade | 4 5/16 | 4 5/16 | 4½ | 4½ | 4½ | 4½ | 4½ | 5¼ | " |
| Per dozen | $1.70 | 1.70 | 1.70 | 1.75 | 1.85 | 2.00 | 2.10 | 2.25 | |

| Size | ¾ | ⅞ | **1** | 1⅛ | 1¼ | 1½ | 1¾ | **2** | inch. |
|---|---|---|---|---|---|---|---|---|---|
| Length of Blade | 5¼ | 5¾ | 5¾ | 5¾ | 6⅜ | 6⅜ | 7 | 7⅜ | " |
| Per dozen | $2.50 | 2.80 | 2.95 | 3.70 | 4.15 | 5.15 | 6.25 | 7.70 | |

In Sets of 12 Chisels, $\frac{1}{4}$ to 1½ inch ..... per set $2.65
" " $\frac{1}{8}$ to 2 " ..... " 3.55

### FIRMER GOUGES, IN CANNEL

| Size | 1/8 | 3/16 | ¼ | 5/16 | ⅜ | 7/16 | ½ | ⅝ | ¾ | ⅞ | **1** | 1⅛ | 1¼ | 1½ | 1¾ | **2** | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Per dozen | $1.75 | 1.75 | 1.75 | 1.85 | 2.05 | 2.10 | 2.15 | 2.35 | 2.55 | 2.90 | 3.05 | 3.85 | 4.35 | 5.30 | 6.50 | 8.00 | |

### FIRMER GOUGES, IN CANNEL, MIDDLE SWEEP

| Size | 1/8 | 3/16 | ¼ | 5/16 | ⅜ | 7/16 | ½ | ⅝ | ¾ | ⅞ | **1** | 1⅛ | 1¼ | 1½ | 1¾ | **2** | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Per dozen | $1.75 | 1.75 | 1.75 | 1.85 | 2.05 | 2.10 | 2.15 | 2.35 | 2.55 | 2.90 | 3.05 | 3.85 | 4.35 | 5.30 | 6.50 | 8.00 | |

### FIRMER GOUGES, IN CANNEL, FLAT SWEEP

| Size | 1/8 | 3/16 | ¼ | 5/16 | ⅜ | 7/16 | ½ | ⅝ | ¾ | ⅞ | **1** | 1⅛ | 1¼ | 1½ | 1¾ | **2** | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Per dozen | $1.75 | 1.75 | 1.75 | 1.85 | 2.05 | 2.10 | 2.15 | 2.35 | 2.55 | 2.90 | 3.05 | 3.85 | 4.35 | 5.30 | 6.50 | 8.00 | |

# CAST STEEL TANGED PARING GOUGES



| Size | ¼ | 5/16 | ⅜ | 7/16 | ½ | ⅝ | ¾ | ⅞ | 1 | 1⅛ | 1¼ | 1½ | 1¾ | 2 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length of Blade. | 7⅞ | 8 | 8⅛ | 8¼ | 8 5/16 | 8⅜ | 9⅛ | 9¼ | 9⅜ | 9½ | 10 | 10½ | 11 | 11⅜ | " |
| Per dozen | $4.00 | 4.10 | 4.10 | 4.35 | 4.35 | 4.65 | 5.05 | 5.30 | 6.10 | 7.20 | 8.20 | 9.30 | 11.20 | 13.30 | |
| In Sets of 12 Gouges, ¼ to 1½ inches | | | | | | | | | | | | | | per set | $5.45 |
| " 12 " ⅛ to 2 " | | | | | | | | | | | | | | " | 6.75 |

### PARING GOUGES, FLAT SWEEP

| Size | ¼ | 5/16 | ⅜ | 7/16 | ½ | ⅝ | ¾ | ⅞ | 1 | 1⅛ | 1¼ | 1½ | 1¾ | 2 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Per dozen | $4.00 | 4.10 | 4.10 | 4.35 | 4.35 | 4.65 | 5.05 | 5.30 | 6.10 | 7.20 | 8.20 | 9.30 | 11.20 | 13.30 | |

### PARING GOUGES, TROWEL SHANK

| Size | ¼ | 5/16 | ⅜ | 7/16 | ½ | ⅝ | ¾ | ⅞ | 1 | 1⅛ | 1¼ | 1½ | 1¾ | 2 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Per dozen | $4.50 | 4.75 | 4.75 | 4.80 | 4.80 | 5.15 | 5.55 | 5.75 | 6.55 | 7.70 | 8.65 | 9.95 | 11.85 | 13.95 | |

## MILLWRIGHTS' CAST STEEL GOUGES

### 10-INCH BLADE



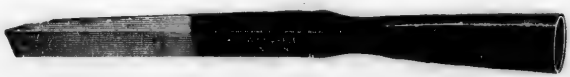
| Size | ¼ | 5/16 | ⅜ | 7/16 | ½ | ⅝ | ¾ | ⅞ | 1 | 1¼ | 1½ | 1¾ | 2 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Per dozen | $4.45 | 4.80 | 4.80 | 5.10 | 5.10 | 6.00 | 6.55 | 7.10 | 7.85 | 10.60 | 12.00 | 14.50 | 17.15 | |
| In Sets of 12 Chisels, ¼ to 2-inch | | | | | | | | | | | | | per set | $9.10 | |

## CAST STEEL TANGED TURNING GOUGES



| Size | ¼ | 5/16 | ⅜ | 7/16 | ½ | ⅝ | ¾ | ⅞ | 1 | 1¼ | 1½ | 1¾ | 2 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length of Blade | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6¼ | 6½ | 6¾ | 6¾ | 7 | 7 | " |
| Per dozen | $2.50 | 2.80 | 2.80 | 3.15 | 3.15 | 3.40 | 3.95 | 4.50 | 5.05 | 6.60 | 8.45 | 10.10 | 12.35 | |

## BLUED SOCKET JOINERS' CHISELS



| Size | ¼ | 5/16 | ⅜ | 7/16 | ½ | ⅝ | ¾ | ⅞ | 1 | 1⅛ | 1¼ | 1½ | 1¾ | 2 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length of Chisel. | 9⅛ | 9⅛ | 9⅛ | 9⅛ | 9⅛ | 9⅛ | 9⅛ | 9⅛ | 9⅛ | 9⅛ | 10⅛ | 10⅛ | 10⅛ | 10⅛ | " |
| Per dozen | $3.95 | 3.95 | 3.95 | 3.95 | 3.95 | 4.20 | 4.50 | 4.80 | 5.30 | 5.85 | 6.40 | 7.30 | 8.50 | 9.75 | |

Half-dozen in a package.

# C. S. SOCKET FIRMER AND PARING CHISELS

## SOCKET FIRMER CHISELS, HANDLED

### 6-INCH BLADE



| Size | 1/8 | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Per dozen | $4.00 | 4.25 | 4.50 | 4.75 | 5.00 | 5.50 | 5.75 | 6.00 | 6.50 | 7.00 | 8.00 | 8.75 | |

In Sets of 12 Chisels, 1/8 to 2 inch ..... per set $6.00

## BEVELLED EDGE SOCKET FIRMER CHISELS, HANDLED

### 6-INCH BLADE

| Size | 1/8 | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Per dozen | $5.25 | 5.50 | 5.75 | 6.00 | 6.25 | 6.75 | 7.00 | 7.25 | 7.75 | 8.25 | 9.25 | 10.00 | |

In Sets of 12 Chisels, 1/8 to 2 inch ..... per set $7.25

## SOCKET PARING CHISELS, HANDLED

### 8-INCH BLADE

| Size | 1/8 | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Per dozen | $5.50 | 5.75 | 6.00 | 6.50 | 6.75 | 7.25 | 7.75 | 8.25 | 9.00 | 10.00 | 11.00 | 12.00 | |

In Sets of 12 Chisels, 1/8 to 2 inch ..... per set $8.00

## C. S. SOCKET FRAMING CHISELS, HANDLED

### 9-INCH BLADE




BEVEL BACK

| Size | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 | 2 1/4 | 2 1/2 | 3 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Per dozen | $6.50 | 6.50 | 7.00 | 7.25 | 7.75 | 8.75 | 9.50 | 10.50 | 11.00 | 12.00 | 12.60 | 14.00 | 18.00 | |

## C. S. CORNER CHISELS, HANDLED



| Size | 3/4 | 7/8 | 1 | 1 1/8 | 1 1/4 | 1 1/2 | inch. |
|---|---|---|---|---|---|---|---|
| Per dozen | $15.00 | 16.00 | 17.00 | 18.00 | 19.50 | 22.00 | |

Half-dozen in a box.

# CARPENTERS' CAST STEEL SLICKS



T SLICK



SOCKET SLICK

Socket or T Handle

| Size | 3 | 3½ | 4 inch. |
|---|---|---|---|
| Per dozen | $20.00 | 22.00 | 25.00 |

## STANLEY'S ADJUSTABLE CHISEL GAUGE




Attach to ¼ inch Chisel (with bevelled edge up), and a shaving of any desired thickness for blind-nailing, or for inlaying wood strips in ornamental surface work.

No. **96**—Chisel Gauge, Steel Stock ..... each $0.25

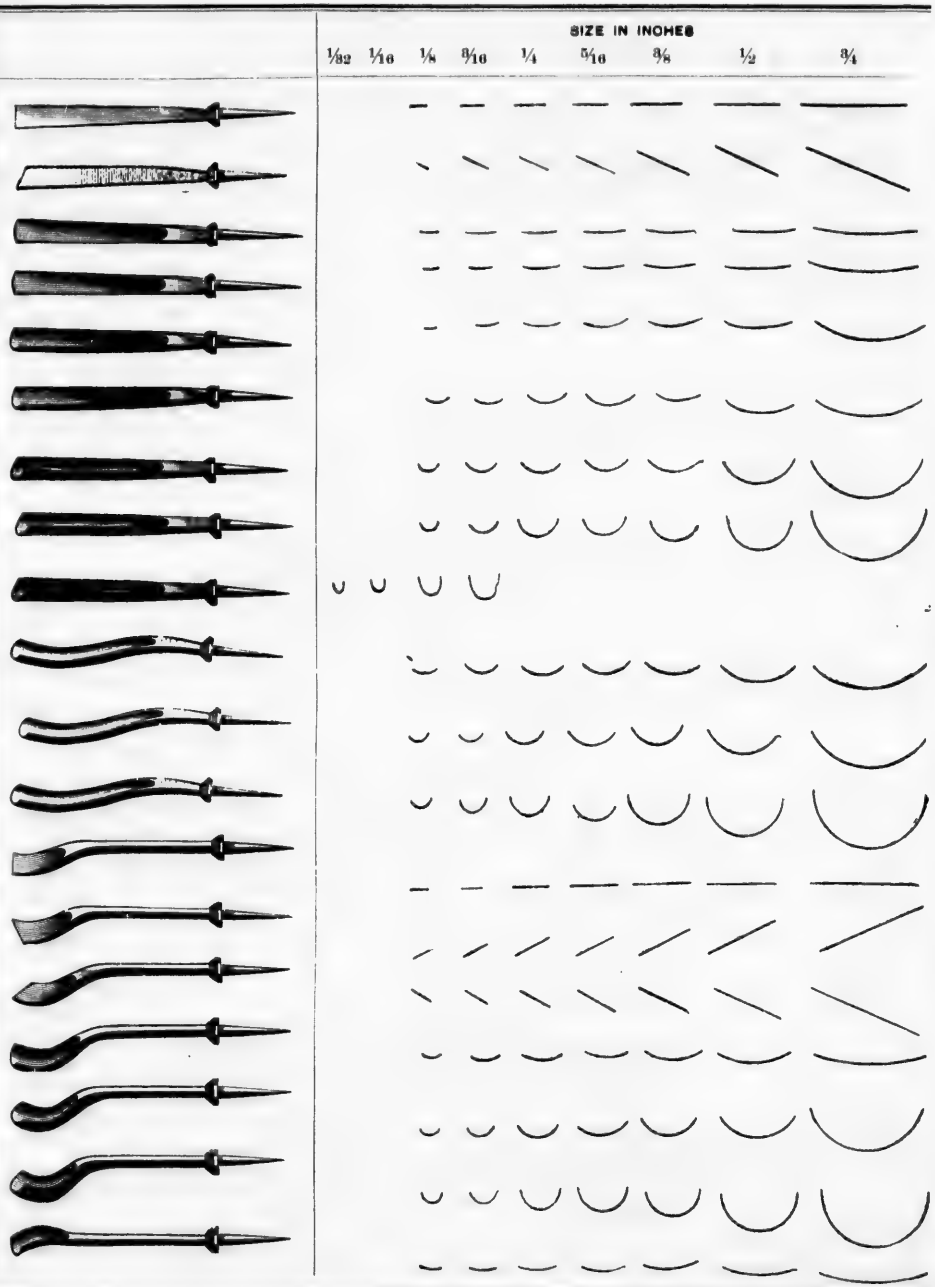
## CARVING TOOLS



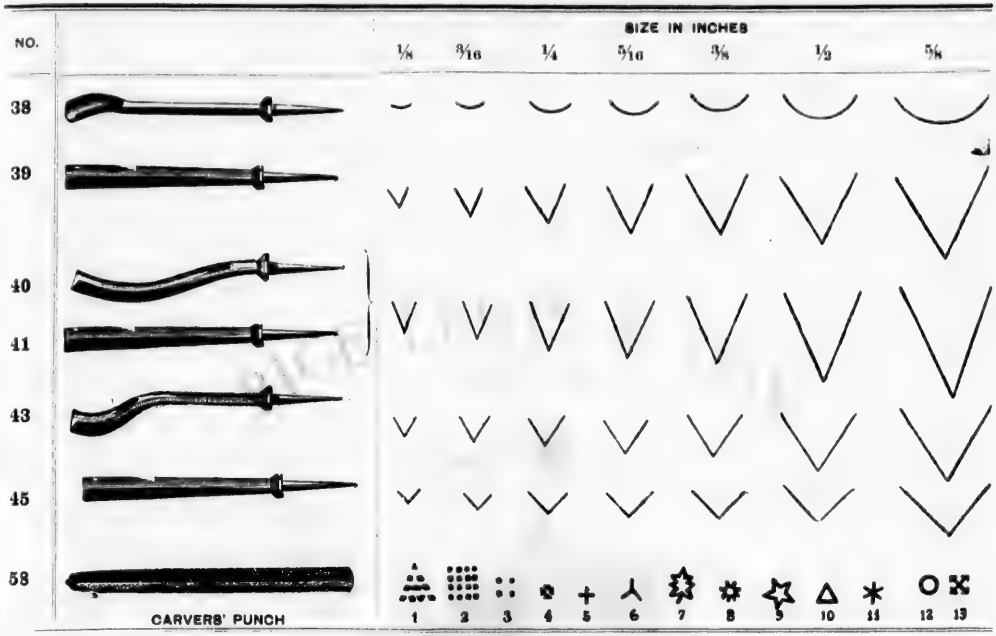
These Tools are forged from the Best Quality of Steel.
They have Rosewood Handles, and are sharpened ready for use.

No. **1**—Six Tools in a Wooden Box ..... per set 1.65

# ADDIS' CARVING TOOLS



# ADDIS' CARVING TOOLS




## ADDIS' CARVING TOOLS

**Price per dozen**

| Size | 1/32 | 1/16 | ⅛ | 3/16 | ¼ | 5/16 | ⅜ | 7/16 | ½ | ⅝ | ¾ | ⅞ | 1 | 1¼ inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Firmer Chisels....Nos. **1, 2** | .... | .... | $2.40 | 2.40 | 2.40 | 2.40 | 2.40 | 2.40 | 2.40 | 2.40 | 2.80 | 3.20 | 3.40 | 4.60 |
| Straight Gouges .. " **3 to 8**.... | .... | .... | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 3.30 | 3.70 | 3.90 | 5.40 |
| " " .. " **10** .... | .... | .... | 3.20 | 3.20 | 3.20 | 3.20 | 3.20 | 3.20 | 3.20 | 3.20 | 3.60 | 4.80 | .... | .... |
| Veining Tools .... " **11** .... | 3.20 | 3.20 | 3.20 | 3.20 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Front Bent Gouges " **15, 17, 19** .... | .... | .... | 3.40 | 3.40 | 3.40 | 3.40 | 3.40 | 3.40 | 3.40 | 4.20 | 5.20 | .... | .... | .... |
| Bent Chisels ..... " **21, 22, 23** .. . | .... | .... | .... | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | .... | 5.20 | 7.20 |
| Front Bent Gouges " **26, 29** ... | .... | .... | 3.40 | 3.40 | 3.40 | 3.40 | 3.40 | 3.40 | 3.40 | 3.40 | 3.80 | .... | .... | .... |
| " " " **31** ... | .... | .... | 3.40 | 3.40 | 3.40 | 3.40 | 3.40 | 3.40 | 3.40 | 4.20 | 5.20 | .... | .... | .... |
| Back Bent Gouges " **35, 38** ... | .... | .... | 3.40 | 3.40 | 3.40 | 3.40 | 3.40 | 3.40 | 3.40 | 3.40 | 3.80 | .... | .... | .... |
| Parting Tools ..... " **39** ... | .... | .... | 4.20 | 4.20 | 4.20 | 4.20 | 4.20 | 4.20 | 4.20 | 5.20 | 6.50 | .... | .... | .... |
| " " ..... " **40** ... | .... | .... | 4.60 | 4.60 | 4.60 | 4.60 | 4.60 | 4.60 | 4.60 | 5.60 | 6.90 | .... | .... | .... |
| " " ..... " **41** ... | .... | .... | 4.20 | 4.20 | 4.20 | 4.20 | 4.20 | 4.20 | 4.20 | ... | .... | .... | .... | .... |
| " " ..... " **43** .. | .... | .... | 4.60 | 4.60 | 4.60 | 4.60 | 4.60 | 4.60 | 4.60 | .... | .... | .... | ... | .... |
| " " .... " **45** ... | .... | .... | .... | 4.20 | 4.20 | 4.20 | 4.20 | 4.20 | .... | .... | .... | .... | .... | .... |

Carvers' Punches. " **58** ... Nos. 2 to 13 or Assorted ..... per dozen $3.10

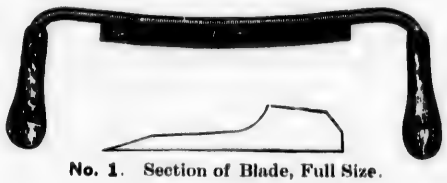
Back Ground Tools, No. **1** ..... " 3.10

Ladies' Carvers, in Sets of 6, Assorted ..... per set 1.45

" " " " 12, " ..... " 2.90

Carvers' Hickory Mallets, see page 261.

# CARPENTERS' C. S. DRAWING KNIVES



**No. 1.** Section of Blade, Full Size.

### RAZOR BLADE

| Size | | 8 | 9 | 10 | 11 | 12 inch. |
|---|---|---|---|---|---|---|
| No. 1 | per dozen | $11.00 | 12.00 | 13.25 | 14.50 | 15.50 |
| Barton's 1¼ inch | " | ..... | 23.40 | 25.20 | 27.00 | ..... |

### BEVEL BACK

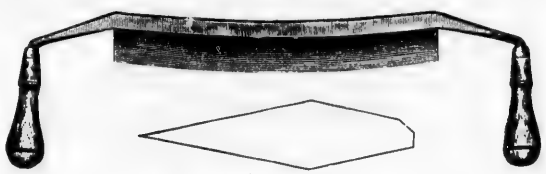
| Size | | 8 | 9 | 10 | 11 | 12 inch. |
|---|---|---|---|---|---|---|
| No. 2 | per dozen | $8.50 | 9.50 | 10.50 | 11.50 | 12.50 |

## FARMERS' C. S. DRAWING KNIVES



| Size | 8 | 9 | 10 inch. |
|---|---|---|---|
| Per dozen | $14.00 | 15.00 | 16.00 |

## WAGGONMAKERS' C. S. DRAWING KNIVES



**No. 30.** Section of Blade, Full Size.

| Size | | 8 | 9 | 10 | 11 | 12 inch. |
|---|---|---|---|---|---|---|
| No. 30 | per dozen | $11.50 | 12.50 | 13.50 | 14.75 | 15.50 |
| Barton's Bevel Back | " | 23.40 | 25.20 | 27.00 | 28.80 | ..... |

## COACHMAKERS' NARROW C. S. DRAWING KNIVES



**No. 31**

| Size | | 8 | 9 | 10 | 11 | 12 inch. |
|---|---|---|---|---|---|---|
| No. 31 | per dozen | $11.00 | 12.00 | 13.25 | ..... | ..... |
| Barton's Coach, 1¼ in., Razor Blade | " | ..... | 25.20 | 27.00 | 28.80 | ..... |
| " Narrow Carriage | " | 21.60 | 23.40 | 25.20 | 27.00 | 28.80 |

# ADJUSTABLE DRAWING KNIVES



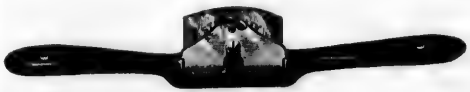
12 inch. 15.50 .....

No. **59**—Watrous Adjustable Drawing Knives, 9 inch Razor Blade ..... per doz. $21.15
No. **3**—Wilkinson " " " 8 " " ..... " 41.45

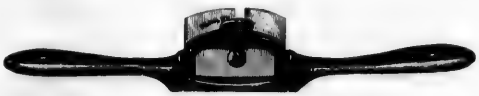
Drawing Knives, half-dozen in a package.

12 inch. 12.50

## IRON SPOKESHAVES



No. **52**—Double Iron, Straight Handle, 10 inch, 2⅛ inch Cutter ..... $3.00



No. **54**—Adjustable, Straight Handle, 10 inch, 2⅛ inch Cutter ..... $3.75

10 inch. 16.00




No. **53**—Adjustable, Raised Handle, 10 inch, 2⅛ inch Cutter ..... $3.75



No. **55**—Model Double Iron, Hollow Face, 10 inch, 2⅛ inch Cutter ..... $2.65



12 inch. 15.50 .....

No. **11**—Straight Handle, 9 inch, 1¾ inch Cutter ..... per doz. 1.90



No. **13**—Double Cutter, Concave and Straight, 10 inch, 1¾ inch Cutter ..... per doz. 3.55

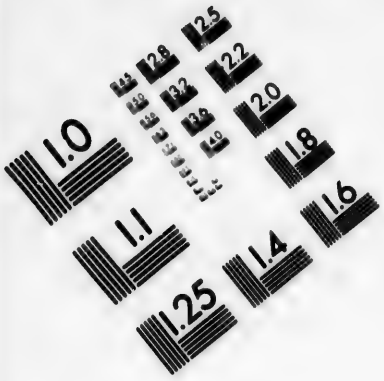


No. **1** ..... per doz. 15.00

12 inch. ..... ..... 28.80

The circular shape of this tool enables it to work in smaller circles than other shapes. The angle of the knife is such that it cuts instead of scraping the grain of the wood. Either handle can be removed to work in cramped places.

Spokeshaves, half-dozen in a box.



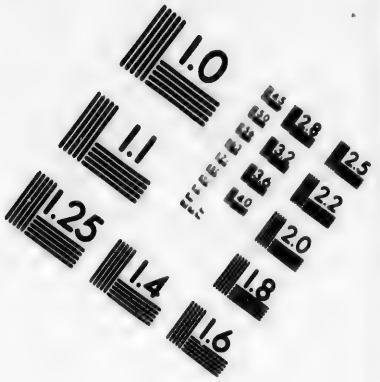
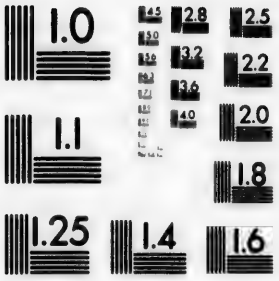
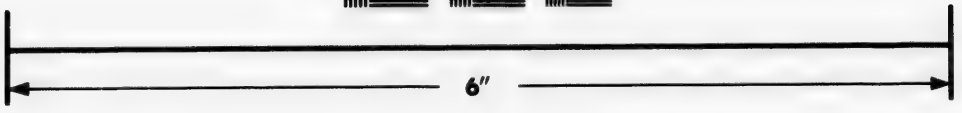



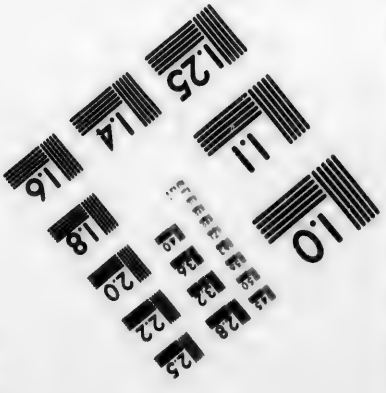

**IMAGE EVALUATION**
**TEST TARGET (MT-3)**









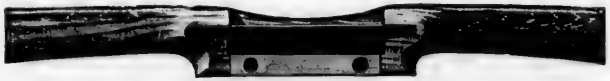

Photographic Sciences Corporation

23 WEST MAIN STREET
WEBSTER, N.Y. 14580
(716) 872-4503

# WOOD SPOKESHAVES



| Size | 1¾ | 2 | 2½ | 3 | 3½ inch. |
|---|---|---|---|---|---|
| No. **670K**—Beechwood, Kent ..... per doz. | $2.70 | 2.70 | 2.70 | 3.15 | .... |
| " **670M**— " Marples, extra quality " | 3.35 | 3.35 | 3.35 | 4.00 | 4.50 |
| " **675** —Boxwood " " " " | 5.00 | 5.00 | 5.00 | 5.60 | .... |

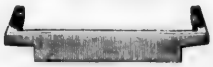


| Size | 1¾ | 2 | 2½ | 3 inch. |
|---|---|---|---|---|
| No. **671**—Beechwood, Marples, with Plate ..... per doz. | $4.50 | 4.50 | 4.50 | 5.00 |



| Size | 2 | 2½ | 3 inch. |
|---|---|---|---|
| No. **668D**—Beechwood, Marples, with Thumb Screws ..... per doz. | $5.00 | 5.00 | 5.00 |
| " **668E**— " " " Plate and Thumb Screws ..... " | 7.00 | 7.00 | 7.00 |

## BEST C. S. SPOKESHAVE IRONS

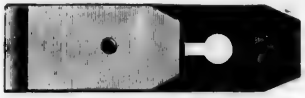


| Size | 2 | 2¼ | 2½ | 2¾ | 3 | 3½ inch. |
|---|---|---|---|---|---|---|
| Per doz | $1.75 | 1.75 | 1.75 | 1.95 | 1.95 | 2.10 |

## BEST C. S. PLANE IRONS



CUT



DOUBLE

| Size | 2 | 2⅛ | 2¼ | 2⅜ | 2½ | 2⅝ | 2¾ inch. |
|---|---|---|---|---|---|---|---|
| Sorby's Single or Cut ....per doz. | $3.05 | 3.20 | 3.65 | 4.05 | 4.25 | 4.80 | 5.30 |
| " Double ..... " | 5.00 | 5.85 | 6.45 | 7.10 | 7.50 | 8.15 | 8.85 |
| Boker's Single or Cut .... " | 2.00 | 2.15 | 2.25 | .... | .... | .... | .... |

Sorby's Single C. S. Toothing Plane Irons, 2 inch, 26 teeth ..... per doz. $3.20
" " " " " " 2½ " 36 " ..... " 3.50

## BAILEY'S PLANE IRONS

| Size | 1⅝ | 1¾ | 2 | 2⅛ | 2⅜ | 2⅝ inch. |
|---|---|---|---|---|---|---|
| Single Irons ..... each | $0.25 | 0.28 | 0.30 | 0.33 | 0.37 | 0.40 |
| Double " ..... " | 0.45 | 0.50 | 0.55 | 0.60 | 0.65 | 0.70 |

Single Block Plane Irons for No. **110** Plane ..... each $0.17
" " " " " " **9½** " ..... " 0.20
" Toothing Plane Irons, 22, 28, 32 teeth ..... " 0.35
Cutters for Veneer Scrapers, Nos. **12** and **112** ..... " 0.25

# SPIRAL SCREW DRIVERS

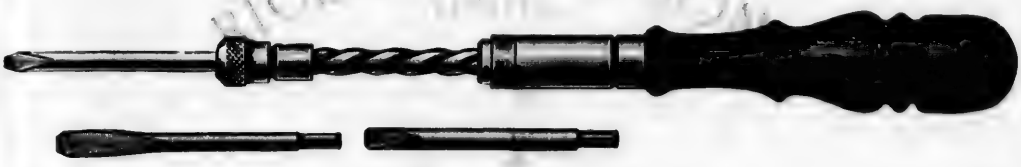
## ELECTRIC SPIRAL SCREW DRIVERS



No. **01**—Length, Closed, 11½ inch; Open, 18 inch ..... per dozen $15.40
" **02**— " " 8 " " 12½ " ..... " 12.80

Half-dozen in a box.

## HOWARD ALLARD SCREW DRIVER



No. **A1**—Length, Closed, 10½ inch; Open, 16½ inch, with three Forged Steel Bits ..... per dozen $19.75

One in a box.

## JONES' PATENT REVERSIBLE SCREW DRIVER

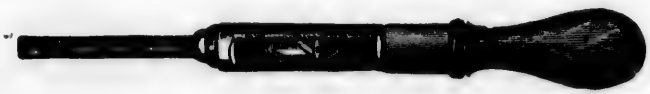


No. **1**—Length, Closed, 11 inch; Open, 17 inch, with three Forged Steel Bits ..... per dozen $31.35
" **2**— " " 10 " " 15 " with two Plain Bits and one Slotted Bit ..... " 26.00

The No. 2 is suitable for use on the Spoke Nipples of Bicycles.

One in a box.

## EUREKA SPIRAL SCREW DRIVERS



No. **6500**—Length, Closed, 9 inch; Open, 13½ inch ..... per dozen $11.60
" **6501**— " " 10½ " " 17 " ..... " 15.25

Half-dozen in a box.

# SCREW DRIVERS

## REID'S LIGHTNING SCREW DRIVER



No. 1—Length, when Closed 15½ inch, with one Bit ..... per dozen $31.35
" 2— " " " 12 " with three Bits ..... " 25.10
No. 1 one only, No. 2 half-dozen in a box.

## RATCHET SCREW DRIVERS



No. 2

No. 2—Pall Ratchet, Cocobolo Handle, length 7 inches, Plated Bit ..... per doz. 19.50
One in a box.

## BRIGHT C. S. SCREW DRIVERS, LONDON PATTERN



No. 710

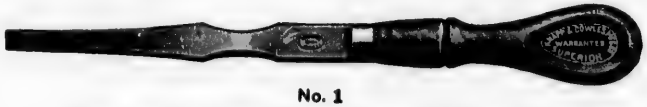
Varnished Beechwood Handle, Heavy Brass Ferrule.

| Size | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 12 inch. |
|---|---|---|---|---|---|---|---|---|---|
| No. 710—Marples'..per doz. | $2.35 | 2.85 | 3.30 | 3.90 | 4.80 | 5.50 | 6.30 | 7.75 | 9.85 |

## OVAL BOX-HANDLED BRIGHT C. S. SCREW DRIVERS

| Size | 3 | 4 | 5 | 6 | 7 | 8 inch. |
|---|---|---|---|---|---|---|
| No. 717—Marples'..... per doz. | $4.60 | 5.30 | 6.30 | 7.45 | 8.80 | 10.15 |

## BRIGHT C. S. SCREW DRIVERS



No. 1

Beech Handle, Capped Ferrule, Forged Flat Steel Blade.

| Size | 3 | 4 | 5 | 6 | 7 | 8 | 10 inch. |
|---|---|---|---|---|---|---|---|
| No. 1.....per doz. | $1.00 | 1.10 | 1.45 | 1.70 | 2.00 | 2.50 | 3.60 |



No. 3

Ebonized Handle, Nickeled Ferrule, Round Forged Steel Blade.

| Size | 3 | 4 | 5 | 6 | 7 | 8 | 10 inch. |
|---|---|---|---|---|---|---|---|
| No. 3.....per doz. | $1.60 | 1.90 | 2.20 | 2.50 | 3.10 | 3.50 | 5.35 |

Half-dozen in a box.

# AUTOMATIC DRILLS




**No. 40**

No. **40**—Length inclusive of Drill, as in Illustration, 10½ inches.....per doz. **$22.50**

**Eight Drills are furnished with each tool, one each** 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 11/64 **inch. The Chuck is of new design. To insert Drill the Sleeve of Chuck is turned to left the Drill inserted and Sleeve let go. The tool is made of Brass, Nickel-Plated and finely finished.**

## RECIPROCATING DRILLS

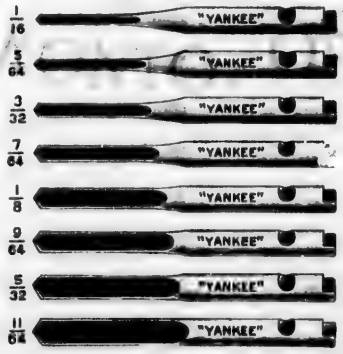


**No. 50**

No. **50**—Length inclusive of Drill, as shown in Illustration, 16 inches.....per doz. **30.00**

**Eight Drills are furnished with each tool, one each** 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 11/64 **inch. This tool is so constructed that the Drill turns continuously to the right during both the forward and backward movement of the driver, Ball Bearings are used under the head of handle. The Chuck is the same design as No. 40.**

## DRILLS FOR Nos. 40 AND 50




Extra Drills for Nos 40 and 50.....per set (8) **0.70**

# SPIRAL RATCHET SCREW DRIVERS

## RIGHT OR LEFT HAND




**No. 30**

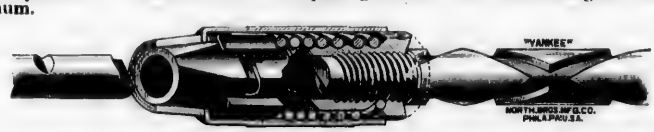
**No. 30—Length closed 13¼ inches, open 19¼ inches, with 3 Forged Steel Bits.....per doz. $20.25**
**One in a box.**

DESCRIPTION.—It can be used as a rigid Screw Driver in any part of its length, as well as to push or ratchet screws in or out. The change from right to left hand for either push or ratchet is made by simply moving the slide to either end of the slot; when slide is moved towards the bit it works right-handed, either to push or ratchet the screw in—pushing the screw in as far as it will go—and without removing the hand from the driver or making any change whatever, turn the handle forward and backward and the screw is ratcheted into its place. When the slide is moved to end towards the handle, it works left-handed.




SHOWS INTERIOR VIEW OF PAWL AND RATCHET MECHANISM

The construction of ratchet and pawls permits of a very compact arrangement, making the tool convenient in size and of light weight, yet stronger in these vital points than any similar tool now made. Neither pawls nor ratchets can bend, break or get out of order. The friction in ratchet mechanism is so slight as to be hardly felt. The nuts working in spiral are of brass, and with the spiral grooves in rod are so designed that the wear has been reduced to a minimum.




SHOWS INTERIOR VIEW OF CHUCK

The chuck for holding the bits is simple in construction and positive in its hold on bits. When the sleeve of chuck is pulled down towards handle the bits can be put in, and when released it moves back to its place, holding bit fast. This sleeve is loose on chuck, so this end of tool can be readily held when in use, the chuck revolving inside of sleeve.

TO INSERT BITS IN CHUCK, pull down the milled sleeve (towards handle), insert bit, then release sleeve.

TO REMOVE BIT, pull sleeve down and pull out bit.

## RATCHET SCREW DRIVERS




**No. 10**

| Length | | 2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 inch. |
|---|---|---|---|---|---|---|---|---|---|
| No. 10 | per doz. | $5.25 | 6.65 | 7.25 | 7.90 | 9.25 | 10.65 | 12.50 | 13.75 |

The construction of ratchet and pawls is such that neither can bend or break, wear or get out of order, and permits a very compact arrangement, making the tool more convenient in size and shape. For right hand or to ratchet a screw in, push the slide to end of slot towards bit; for left hand or to ratchet a screw out, push the slide towards handle of driver. If the slide is placed midway between ends of slot, the blade is held rigidly and the driver can be used as an ordinary screw driver with fixed blade.

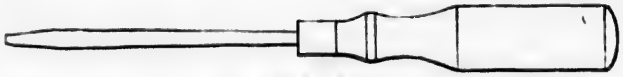
# SCREW DRIVERS



## STANDARD

Mahogany Handles, Round Forged Steel Blade.

| Size | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 10 | 12 inch. |
|---|---|---|---|---|---|---|---|---|---|
| Diameter of Shank | 1/8 | 1/8 | 1/4 | 1/4 | 5/16 | 5/16 | 3/8 | 3/8 | 3/8 |
| Standard.....per doz. | $1.20 | 1.20 | 1.35 | 1.45 | 1.65 | 1.80 | 2.40 | 2.85 | 3.15 |



## No. 400

Rosewood Finished Handle, Light Round Forged Steel Blade.

| Size | 2 | 3 | 4 | 5 | 6 | 7 | 8 inch. |
|---|---|---|---|---|---|---|---|
| Diameter of Shank | 1/8 | 1/8 | 1/4 | 5/16 | 5/16 | 5/16 | 5/16 |
| No. 400.....per doz. | $2.55 | 2.80 | 3.00 | 3.25 | 3.75 | 4.00 | 4.25 |

## CINCINNATI SCREW DRIVERS




Maple Wood Handles, Bright Round Steel Blades.

| Length over all | 14 | 16 | 18 | 20 inch. |
|---|---|---|---|---|
| Per dozen | $5.00 | 5.50 | 6.25 | 6.75 |

Half-dozen in a Box.

## SEWING MACHINE SCREW DRIVERS



## No. 5844

| | | | |
|---|---|---|---|
| No. 5844—Varnished Wood Handles, Bright Steel Blades | per gross | $9.00 |
| " 3—Maple " " Flat " " | " | 4.50 |
| " 30—Enamelled " " " " " | " | 5.10 |

Nos. 3 and 30 the Handles are similar to the No. 1 Screw Drivers on page 156.

One dozen in a box.

## VULCAN ALL-STEEL SCREW DRIVERS

### HOLLOW HANDLES



2½, 3½ and 4 inch, Full Size Cut of 2½ inch.




5 and 6 inch.

| Length of Blade | 2½ | 3½ | 4 | 5 | 6 inch. |
|---|---|---|---|---|---|
| Full Length | 5⅜ | 6⅜ | 7⅛ | 9 | 10⅛ " |
| Per dozen | $4.40 | 5.00 | 5.65 | 10.30 | 11.90 |

Half-dozen in a box.

# AWLS

## HANDLED BRAD AWLS



| | | | |
|---|---|---|---|
| No. **840**—Kent's Oval Handle, Assorted | per gross | $7.65 |
| " **841**—Marples' " " " | " | 9.45 |

Quarter-gross in a box.

## BRAD AWLS



| | | |
|---|---|---|
| Briggs' Shouldered Awls, Assorted, 36-41 | per gross | $2.00 |
| " " " all Fine, 39-41 | " | 1.80 |
| No. **214**—Boker's Shouldered Awls, Assorted, 6-11 | " | 1.00 |
| " " " " " " 8-11 | " | 0.90 |
| " **219**— " " " " 6-11 | " | 1.15 |
| " " " " " " 8-11 | " | 1.05 |

## PEG AWLS



No. **40**, Patent Peg Awl.



Nos. **215** and **217**, Shouldered Peg Awl.

| | | |
|---|---|---|
| No. **40**—Patent Peg Awls, Assorted | per gross | $0.60 |
| " **215**—Boker's Shouldered Peg Awls, Assorted, 10-14 | " | 0.70 |
| " **217**— " " " " 1-4 | " | 0.55 |

One gross in a box.

## SEWING AWLS



No **51**, Patent Sewing Awl.



Sewing Awls.



Harness or Saddlers' Awl.

| | | |
|---|---|---|
| No. **51**—Patent Sewing Awl, Bent, Assorted | per gross | $2.25 |
| Briggs' Tanged Sewing Awl, Bent, Assorted sizes 83-94 | " " | 2.35 |
| " **204**—Boker's " " " " " " 1-4 | " " | 1.05 |
| " " " " " " " " 2-7 | " " | 0.90 |
| " **208**— " " Harness " Straight " " 2-7 | " " | 0.70 |
| " " " " " " " " 3-8 | " " | 0.60 |
| " " " " " " " " 4-8 | " " | 0.60 |
| " **212**— " " Stabbing " " round " " 2-7 | " " | 0.70 |
| Briggs' Saddlers' " " " " 18-150 | " " | 2.50 |

Half gross in a box.

# AWLS

## HANDLED SCRATCH AWLS



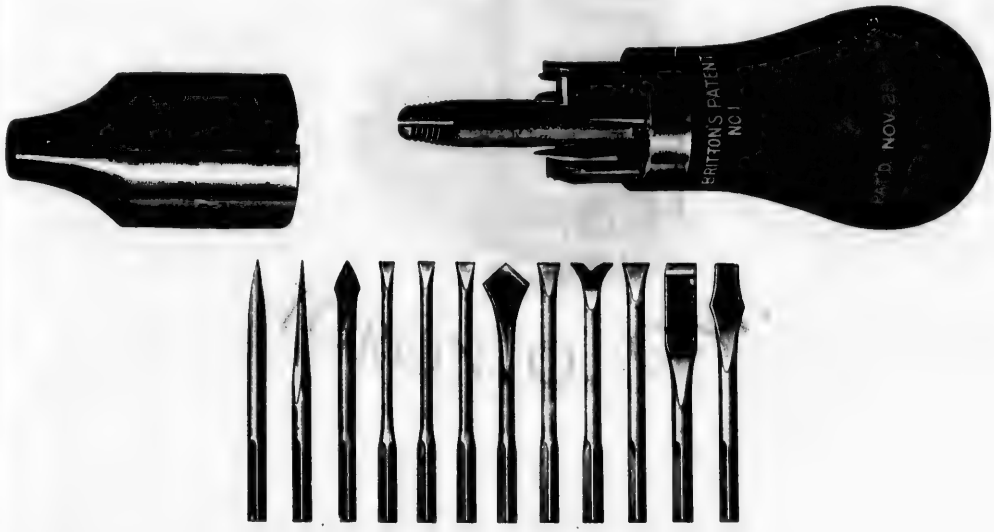
No. **975**—Boker's Scratch Awls.....per doz. 0.60
" **976½**- " " " ..... " " 0.70



No. **15**—Socket Scratch Awls.....per doz. 2.15

One dozen in a box.

## AWLS AND TOOLS




### BRITTON'S COMBINATION

**Nickel-Plated Caps. Rosewood Handles**

No. **1**—With 12 Tools, as illustrated.....per doz. $13.00
" **2**— " 8 large Tools—3 Brad Awls; 1 each, Chisel, Reamer, Screw Driver, Tack Puller and Countersink .....per doz. 16.25

These tool holders can be safely used with a hammer or mallet without material injury to the handle. The tools are best quality both in steel and temper. The tools in No. 2 are 2½ inches in length. Half dozen in a box.

# AWLS AND TOOLS



FULL SIZE

Tools made of superior Cast Steel, no Wrench required, Thumb Nut and Grip Nickel-Plated, Handles Hollow to contain the Tools.

No. **60**—Applewood Handle, 10 Tools, as per Cut ..... per doz. $7.15

" **61**—Cocobolo " " " ..... " 9.40

Half-dozen in a box.

# AWLS AND TOOLS



No. 405, BRAD AWL.



No. 406, BRAD AWL.



No. 414, GIMLET.



No. 415, REAMER AND SCRATCH AWL COMBINED.



No. 416, SCREW DRIVER.



No. 418, FILE.



No. 411, CHISEL.



No. 419, GOUGE.



No. 420, SAW.



**FULL SIZE**

Extra large Handle and Tools.

Tools made of the Highest Grade of Cast Steel, no Wrench required, Thumb Nut and Grip Nickel-Plated, Handles Hollow to contain the Tools.

No. **70**—Applewood Handle, **9** Tools, as per Cut ..... per doz. $16.90
" **72**—Cocobolo " " " ..... " 19.50

Half-dozen in a box.

# AWLS AND TOOLS



CUT TWO-THIRDS SIZE

Tools of superior Cast Steel, Handles Hollow to contain the Tools.

No. **120**—Applewood Handle, 14 Brad Awls (and Tools Nos. 11, 13, 14, 15, 16, 17) ..... per doz. $4.90

Half-dozen in a box.

## GIMLETS

### BOXWOOD HEAD



TWIST GIMLET



*Brewers London Pattern Twist Gimlet*



SHELL GIMLET

| | | | | |
|---|---|---|---|---|
| No. **750½**, | Boker's | Shell | Assorted 0 to 4 | per gross $4.75 |
| " **751½**, | " | Twist | " " to $\frac{5}{16}$nds | " 5.50 |
| " **751½**, | " | " | " $\frac{3}{16}$, $\frac{7}{32}$, $\frac{1}{4}$, $\frac{5}{16}$nds | " 4.00 |
| " **751½**, | " | " | " $\frac{5}{16}$nds | " 6.30 |
| " **751½**, | " | " | " $\frac{7}{16}$nds | " 8.00 |
| " **751½**, | " | " | " $\frac{9}{16}$nds | " 9.40 |
| " **758**, | Kent's | Shell | assorted $\frac{1}{8}$ to $\frac{5}{16}$nds | " 12.90 |
| " **759**, | Marples' | " | " $\frac{1}{8}$ to $\frac{5}{16}$nds | " 15.25 |
| " **766**, | Kent's | Twist | " " $\frac{1}{8}$ to $\frac{5}{16}$nds | " 15.20 |
| " **767**, | Marples' | " | " " $\frac{1}{8}$ to $\frac{5}{16}$nds | " 18.90 |
| " **791**, | " | Brewers | $\frac{1}{16}$nds | per doz. 2.85 |

No. 791, 2 dozen, others, quarter-gross in a box.

# GIMLET BITS



| Size | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12-32nds. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. **240**—Diamond Gimlet Bits, per doz. | $1.35 | 1.35 | 1.35 | 1.35 | 1.35 | 1.35 | 1.35 | 1.35 | 1.35 | .... | .... |
| Boker's Gimlet Bits, .... .... " | $0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.75 | 0.85 | 0.95 | 1.00 |

## SYRACUSE TWIST BITS

### FOR WOOD



| Size | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 12-32nds. |
|---|---|---|---|---|---|---|---|---|---|---|
| Per dozen | $1.00 | 1.00 | 1.00 | 1.75 | 2.00 | 2.50 | 3.00 | 3.50 | 3.50 | 4.00 |

## BELL HANGERS' BITS

### FOR BELL HANGERS, TELEPHONE AND TELEGRAPH WORK



| Size | 3/16 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 5/8 | 11/16 | 3/4 | 7/8 | 1 inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Length, 18 inches ...per doz. | $7.00 | 7.00 | 7.50 | 8.00 | 9.00 | 10.00 | 12.00 | ..... | ..... | ..... | ..... |
| " 24 " " | $9.00 | 9.00 | 9.50 | 10.00 | 11.00 | 12.00 | 14.00 | 15.00 | 16.00 | 18.00 | 20.00 |

## COUNTERSINK BITS



No. **280**—Countersink Bits, Diamond Point, Assorted, 4 to 10-32nds ..... per doz. **$2.00**

## CAST STEEL SHELL, NOSE AND SPOON BITS

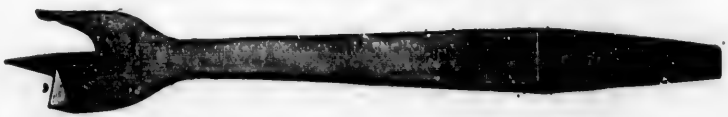


Shell Bit. Nose Bit.

Spoon Bit.

| Size | 1/8 | 3/16 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 inch. |
|---|---|---|---|---|---|---|---|
| Marples' Shell Nose or Spoon Bits. per doz. | $1.75 | 1.75 | 1.75 | 1.90 | 2.00 | 2.40 | 2.75 |

## BRIGHT C. S. CENTRE BITS



| Size | 1/4 to 3/8 | 7/16 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1 1/8 | 1 1/4 | 1 3/8 | 1 1/2 | 1 5/8 | 1 3/4 | 1 7/8 | 2 inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. **494**—Marples'. per doz. | $1.00 | 1.75 | 1.75 | 1.80 | 1.85 | 2.00 | 2.20 | 2.60 | 2.90 | 3.25 | 3.50 | 3.90 | 4.35 | 4.80 | 5.40 |
| " **591**—Boker's " . | $0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 1.00 | 1.00 | 1.20 | 1.35 | 1.50 | 1.70 | 2.15 | 2.90 | 2.85 | 3.10 |

One dozen in a box.

# AUGER BITS



GILMORE'S PATTERN

## GILMORE'S AND ROCKFORD SUPERIOR C. S. AUGER BITS

Gilmore's Pattern.

| Size | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 16ths. |
|---|---|---|---|---|---|---|---|---|---|---|
| Per doz. | $4.00 | 3.50 | 3.50 | 3.75 | 3.75 | 4.00 | 4.25 | 4.50 | 5.00 | |
| Size | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 20 | | 16ths. |
| Per doz. | $5.50 | 6.00 | 6.50 | 7.25 | 8.00 | 9.00 | 10.00 | 11.00 | | |



JENNING'S PATTERN

## ROCKFORD BLUED TWIST C. S. AUGER BITS

Jenning's Pattern.

| Size | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 16ths. |
|---|---|---|---|---|---|---|---|---|---|---|
| Per doz. | $4.00 | 3.50 | 3.50 | 3.75 | 3.75 | 4.00 | 4.25 | 4.50 | 5.00 | |
| Size | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 20 | | 16ths. |
| Per doz. | 5.50 | 6.00 | 6.50 | 7.25 | 8.00 | 9.00 | 10.00 | 11.00 | | |

## GENUINE RUSSELL JENNING'S C. S. AUGER BITS

| Size | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 16ths. |
|---|---|---|---|---|---|---|---|---|---|---|
| Per doz. | $4.75 | 4.20 | 4.75 | 5.35 | 6.15 | 6.75 | 7.30 | 7.85 | 8.55 | |
| Size | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 16ths. |
| Per doz. | $9.25 | 10.10 | 10.95 | 11.75 | 12.60 | 13.45 | 14.30 | 15.15 | 16.00 | |

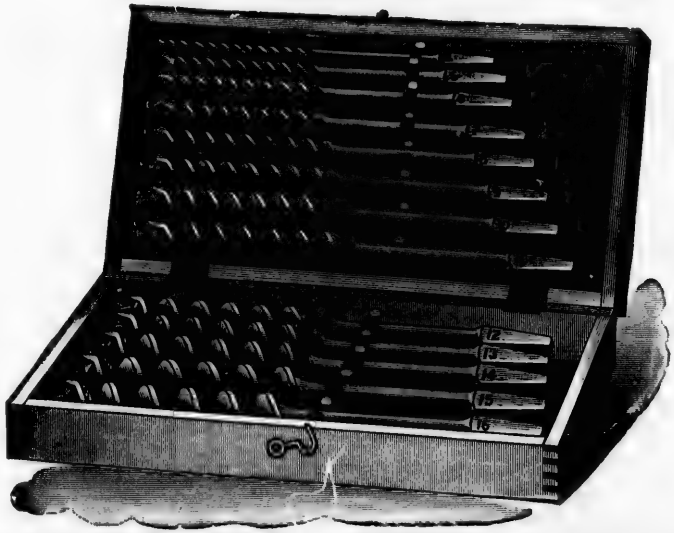
## IRWIN AUGER BITS

Double Cutter.



| Size | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 20 | 16ths. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Per doz. | $3.00 | 3.40 | 3.80 | 4.40 | 4.80 | 5.20 | 5.60 | 6.10 | 6.60 | 7.20 | 7.80 | 8.40 | 9.00 | 9.60 | 10.20 | 11.40 | |

## AUGER BITS IN SETS



No. **1**—Gilmore's, in Wood Boxes, Thirteen Bits, one each, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16-16ths, per set $4.00
" **2**— " " " Six " " 4, 5, 6, 8, 10, 12-16ths " 2.50
" **3**—Rockford Superior, in Wood Boxes, Thirteen Bits, one each, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16-16ths per set 3.40
" **H**—Rockford Superior, in Wood Boxes, Six Bits, one each, 4, 5, 6, 8, 10, 12-16ths. " 1.50
" **30**—Rockford, Jenning's Pattern, in Wood Boxes, Thirteen Bits, one each, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16-16ths. per set 4.15
" **300**—Genuine Russell Jenning's Auger Bits in Sets, Thirteen Bits, 4 to 16-16ths " 8.75
" **200**— " " " " " Six " 4 to 12-16ths " 3.20

# FORSTNER AUGER BITS




| Size .... | 3/8 | 7/16 | 1/2 | 9/16 | 5/8 | 11/16 | 3/4 | 13/16 | 7/8 | 15/16 | 1 | 1 1/8 | 1 3/16 | 1 1/4 | 1 3/8 | 1 1/2 | 1 3/4 | 2 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Each.... | $0.70 | 0.85 | 0.85 | 1.00 | 1.00 | 1.20 | 1.20 | 1.35 | 1.35 | 1.50 | 1.50 | 1.60 | 1.75 | 1.75 | 1.90 | 7.50 | 10.50 | 13.50 | |

## FORSTNER MACHINE AUGER BITS

With 3/8 or 1/2 inch diameter Shanks. Length of Shank, 5 inches.

| Size ..... | 3/4 | 7/16 | 1/2 | 9/16 | 5/8 | 11/16 | 3/4 | 13/16 | 7/8 | 15/16 | 1 | 1 1/4 | 1 3/16 | 1 1/4 | 1 3/8 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Each ..... | $1.00 | 1.15 | 1.15 | 1.30 | 1.30 | 1.50 | 1.50 | 1.65 | 1.65 | 1.80 | 1.80 | 1.90 | 2.05 | 2.05 | 2.20 | |

## CLARK'S PATENT EXPANSIVE BITS




Small size, cutting from 1/2 to 1 1/2 inch, 2 Cutters with each Bit ..... per doz. $22.50
Large " " 1/8 to 3 " 2 " " " ..... " 32.50

**Extra Cutters**

| Nos. ..... | 1 | 2 | 3 | 4 | 5 | |
|---|---|---|---|---|---|---|
| Size ..... | 1/2 to 7/8 | 7/8 to 1 1/2 | 1 1/2 to 1 3/4 | 1 3/4 to 3 | 2 1/2 to 4 | inch. |
| Per dozen ..... | $3.75 | 4.70 | 6.55 | 7.50 | 11.25 | |

## CLARK'S PATTERN EXPANSIVE BITS

### LAVIGNE'S PATENT



Small size, cutting 1/2 to 1 1/2 inch ..... per doz. $22.50
Large " " 1/8 to 3 " ..... " 32.50

**Extra Cutters**

| Nos. ..... | 1 | 2 | 3 | 4 | 5 | |
|---|---|---|---|---|---|---|
| Size ..... | 1/2 to 7/8 | 7/8 to 1 1/2 | 1 1/2 to 1 3/4 | 1 3/4 to 3 | 2 1/2 to 4 | inch. |
| Per dozen ..... | $3.75 | 4.70 | 6.55 | 7.50 | 11.25 | |

One in a box; half-dozen in a large box.

## CAR BITS



### GILMORE'S CAR BITS

(Twist, 12 inches.)

| Size ..... | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 16ths. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Per dozen ..... | $7.50 | 7.50 | 7.50 | 9.00 | 10.25 | 11.25 | 12.75 | 13.25 | 15.50 | 16.50 | 17.75 | 18.75 | 20.50 | |




### IRWIN PATENT CAR BITS

(Double Cutter, 12-inch Twist.)

| Size ..... | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 16 | 16ths. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Per dozen ..... | $6.00 | 6.80 | 7.60 | 8.80 | 9.60 | 10.40 | 11.20 | 12.20 | 13.20 | 14.40 | 15.60 | 18.00 | |

# BRIGHT C. S. EYE AUGERS



### SHORT

| Size | ½ | ⅝ | ¾ | ⅞ | 1 | 1⅛ | 1¼ | 1½ | 1¾ | 2 | 2½ | 3 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gilmore's.....per doz. | $9.50 | 10.50 | 11.50 | 12.50 | 13.50 | 14.50 | 15.50 | 18.50 | 21.50 | 25.50 | 53.50 | 75.50 | |
| Boker's..... | $3.90 | 4.50 | 5.10 | 5.70 | 6.40 | 7.30 | 8.10 | 9.00 | 11.70 | 13.80 | 20.30 | 34.50 | |

### LONG

| Size | 1 | 1¼ | 1½ | 1¾ | 2 | 2¼ | 2½ | 3 | 3½ | 4 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gilmore's.....per doz. | $14.00 | 16.00 | 19.00 | 22.00 | 26.00 | 44.00 | 54.00 | 76.00 | 96.00 | 126.00 | |
| Boker's..... | $ 6.40 | 8.10 | 9.90 | ..... | 13.80 | ..... | 20.30 | 34.50 | 48.00 | 70.00 | |

## BRIGHT C. S. NUT AUGERS



| Size | ½ | ⅝ | ¾ | ⅞ | 1 | 1⅛ | 1¼ | 1½ | 1¾ | 2 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Per dozen | $6.00 | 7.00 | 8.00 | 9.00 | 10.00 | 11.00 | 12.00 | 15.00 | 18.00 | 22.00 | |

## MILLWRIGHTS' BRIGHT C. S. AUGERS



| Size | ½ | 9/16 | ⅝ | 11/16 | ¾ | 13/16 | ⅞ | 15/16 | 1 | 1 1/16 | 1 1/8 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Each | $1.00 | 1.12 | 1.25 | 1.38 | 1.50 | 1.63 | 1.75 | 1.87 | 2.00 | 2.12 | 2.25 | |

| Size | 1 3/16 | 1¼ | 1 5/16 | 1⅜ | 1 7/16 | 1½ | 1 9/16 | 1⅝ | 1 11/16 | 1¾ | 1⅞ | 2 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Each | $2.38 | 2.50 | 2.63 | 2.75 | 2.88 | 3.00 | 3.12 | 3.25 | 3.37 | 3.50 | 3.75 | 4.00 | |

## SHIP AUGERS



## GILMORE'S C. S. SHIP AUGERS

### WITH OR WITHOUT SCREW

| Size | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 16ths. |
|---|---|---|---|---|---|---|---|---|---|
| Per dozen | $7.50 | 7.50 | 7.50 | 9.00 | 9.00 | 10.50 | 10.50 | 12.00 | 12.00 |
| Size | 15 | 16 | 17 | 18 | 19 | 20 | 22 | 24 16ths. | |
| Per dozen | $13.50 | 13.50 | 15.00 | 15.00 | 16.50 | 16.50 | 18 00 | 21.00 | |

## L'HOMMEDIEU SHIP AUGERS

### WITH OR WITHOUT SCREW

| Size | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 16ths. |
|---|---|---|---|---|---|---|---|---|---|
| Per dozen | $10.00 | 10.00 | 10.00 | 12.00 | 12.00 | 14.00 | 14.00 | 16.00 | 16.00 |
| Size | 15 | 16 | 17 | 18 | 19 | 20 | 22 | 24 16ths. | |
| Per dozen | $18.00 | 18.00 | 20.00 | 20.00 | 22.00 | 22.00 | 24.00 | 28.00 | |

# BORING MACHINE AUGERS



Solid Cast Steel, Polished, Shanks ½ inch diameter.

| Size | 1 | 1¼ | 1½ | 1¾ | 2 inch. |
|---|---|---|---|---|---|
| Per dozen | $12.00 | 14.00 | 17.00 | 20.00 | 24.00 |

In sets, one of each, 1¼, 1½ and 2 inch..... per set $4.60

## RUSSELL JENNINGS' MACHINE BITS



### STRAIGHT SHANK

Shanks 2 inches long by ½ inch diameter, 6 inch Twist.

| Size | ¼ | 5/16 | ⅜ | 7/16 | ½ | ⅝ | ¾ | ⅞ | 1 inch. |
|---|---|---|---|---|---|---|---|---|---|
| Per dozen | $6.30 | 7.15 | 8.00 | 9 25 | 10.10 | 11 75 | 13 85 | 16.40 | 18.90 |

### TAPER SHANK

Shanks 2½ inches long, tapering ¼ to ⅝ inch diameter, 6 inch twist.

| Size | ¼ | 5/16 | ⅜ | 7/16 | ½ | ⅝ | ¾ | ⅞ | 1 inch. |
|---|---|---|---|---|---|---|---|---|---|
| Per dozen | $6.30 | 7.15 | 8.00 | 9.25 | 10.10 | 11.75 | 13.85 | 16.40 | 18.90 |

## IRWIN MACHINE BITS

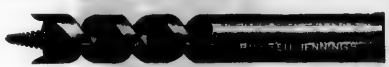


### STRAIGHT SHANK

Shanks 2 inches long by ½ inch diameter, 6 inch twist.

| Size | ¼ | 5/16 | ⅜ | 7/16 | ½ | ⅝ | ¾ | ⅞ | 1 inch. |
|---|---|---|---|---|---|---|---|---|---|
| Per dozen | $4.50 | 5.10 | 5.70 | 6.60 | 7.20 | 8.40 | 9.90 | 11.70 | 13.50 |

## RUSSELL JENNINGS' DOWEL BITS



| Size | | 5/16 | ⅜ | 7/16 inch. |
|---|---|---|---|---|
| Straight Shank (Shank diameter of Bits) | per doz. | $4.75 | 5.35 | .... |
| Bit Stock | " | 4.75 | 5.35 | 6.20 |

## PATENT CASTER BIT

Cutting Straight and Taper Tenons from 7/16 to 1½ diameter and ⅞ inch length.

Price..... per dozen $22.50

## BEEBE'S PUMP TOOLS

These Tools are made of Solid Cast Steel, and Fully Warranted.

### PUMP AUGERS



Price..... per ¼ inch 1.45

### PUMP REAMERS



Price..... per ¼ inch 0.75

### PUMP AUGER SOCKETS

Price..... each 4.40

# HOLLOW AUGERS



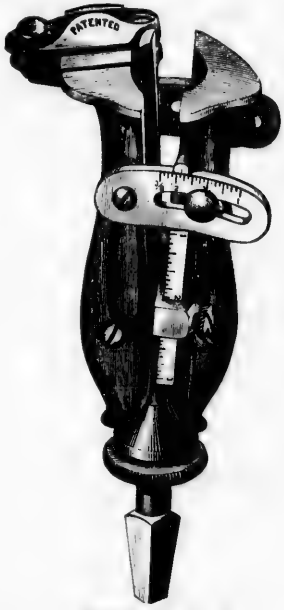
**CINCINNATI No. 1**

Cutting ¼ to 1½ inch..... each $7.00



**WOODS'**

Cutting ¼ to 1¼ inch..... each $5.15



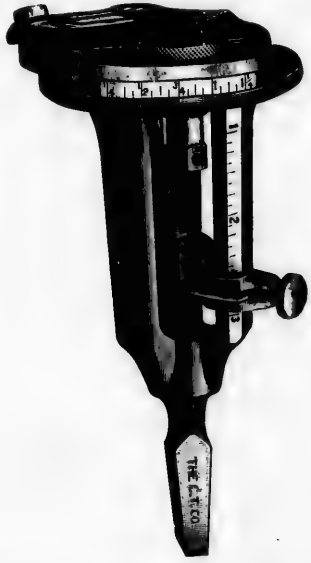

**STEARNS' No. 2**

Cutting ⅜ to 1 inch.....each $6.00



**STANDARD**

One size.. .....each $2.25
Plates..... " 0.80




**CINCINNATI No. 3**

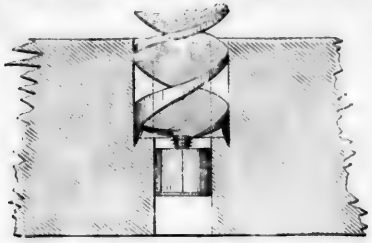
Cutting ¼ to 1¼ inch....each $7.00

In the Standard, the Plates are separate from the frame and interchangeable. One frame and one plate constitute the Auger. Plates are of the following sizes, viz., ⅜, 7/16, ½, 9/16, ⅝, ¾, ⅞ and 1 inch, and are sold separate from the frame when desired.

One in a box.

## AUGER BIT GUIDE





This Guide is made of Solid Brass with a soft Metal Centre so as to accommodate itself to the Screw Point of any Screw Auger without injury to the Screw.

In sets of 12 sizes, $\frac{1}{4}$ to $1\frac{1}{8}$ inch ..... per set $1.35

One set in a box.

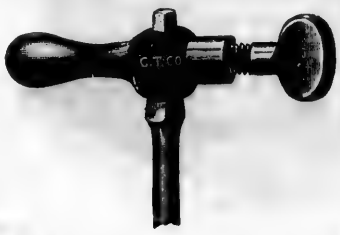
## AUGER BIT GAUGE



Adapted for any size Bit up to $\frac{1}{8}$ inch.

Garrett's Patent Auger Bit Gauge, Nickel-Plated ..... per doz. 5.10

## IMPROVED BIT WRENCHES




Cincinnati Bit Wrenches ..... per doz 3.15

## DOWEL AND SPOKE POINTERS



DOWEL POINTER, FULL SIZE

No. **00**—Dowel Pointer, Pointing from 0 to $\frac{3}{4}$ inches ..... per doz. 5.65
" **0**—Spoke " " " 0 to $1\frac{1}{2}$ " ..... " 8.10
" **1**— " " " " 0 to $1\frac{7}{8}$ " ..... " 11.25

The No. 1 Spoke Pointer has Graduated Adjustable Shank.

Half-dozen in a box.

# CLARK'S DOUBLE-CUT COUNTERSINKS




OPEN FOR SHARPENING



CLOSED FOR USE

Make the smoothest work. Can be kept as sharp as a plane.

Polished ..... per doz. $5.75

## ADJUSTABLE STEEL COUNTERSINK

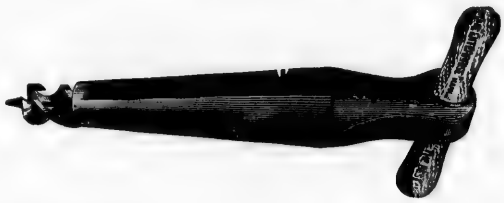


Adjusts to any Bit from $\frac{1}{8}$ to $\frac{1}{4}$ inch ..... per doz. $4.50

## PLUG CUTTERS

| Size | ½ | 9/16 | ⅝ inch. |
|---|---|---|---|
| Plug Cutters, extra cast steel ..... per doz. | $7.00 | 7.00 | 7.00 |

## ENTERPRISE BUNG-HOLE BORER



| | | |
|---|---|---|
| No. 1—Small size, boring from ⅝ to 1½ inches | each | $2.10 |
| " 2—Medium " " 1½ to 2 " | " | 2.80 |
| " 3—Large " " 1½ to 3 " | " | 4.20 |

The main advantages of this Borer are—it bores a complete round hole, regular taper, holds its own chips, and prevents them from entering the cask. Being furnished with a round lip bit, smoothness in boring is ensured.

To sharpen the stock or reamer, file the inside of the slot only.

## BUNG STARTERS



Bung Starters, Maple, Dovetailed Head ..... per doz. $3.35

# BRIGHT C. S. SCREW DRIVER BITS



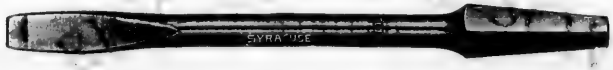
No. **515** —Marples' Plain ..... per doz. $1.75
" **653E**—Boker's " ..... " 1.10

## BRIGHT C. S. FORKED SCREW DRIVER BITS



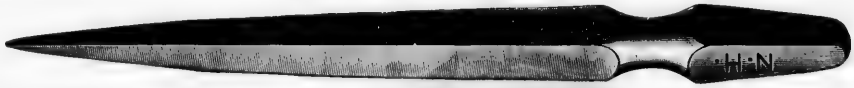
No. **516** —Marples' Forked ..... per doz. 1.90
" **654E**—Boker's " ..... " 1.20

## STANDARD C. S. SCREW DRIVER BITS




| Nos. | 8 | 10 | 12 | 16 | |
|---|---|---|---|---|---|
| Width of point | $\frac{1}{4}$ | $\frac{5}{16}$ | $\frac{3}{8}$ | $\frac{1}{2}$ | inch. |
| Length 4 inches ..... per doz. | $3.70 | 3.70 | 3.70 | 4.45 | |

## BRIGHT C. S. REAMERS




No. **517** —Marples' Square Reamers ..... per doz. $2.10
" **518** — " Half Round " ..... " 2.10
" **519** — " Octagon " ..... " 2.60
" **655E**—Boker's Square " ..... " 1.35
" **657E**— " Half Round " ..... " 1.40
" **672E**— " Octagon " ..... " 1.65

## BRIGHT C. S. ROSE COUNTERSINKS



No. **530** —Marples', assorted large ..... per doz. 2.25
" **651E**—Boker's, " " ..... " 1.25

## BRIGHT C. S. SNAIL COUNTERSINKS



No. **527** —Marples', assorted large ..... per doz. 2.10
" **650E**—Boker's " " ..... " 1.25

## BRIGHT C. S. FLAT HEAD COUNTERSINKS



No. **524** —Marples', assorted large ..... per doz. 1.90
" **652E**—Boker's " " $\frac{1}{2}$ to $\frac{5}{8}$ inch ..... " 1.20
" **50** —Syracuse, fits Tire Bolts ..... " 3.80
" **80** — " fits Wood Screws ..... " 3.80

# NAIL SETS

## SUPERIOR CUP POINT



KNURLED BODY

No. **11**—Three Sizes, Points 2, 3 and 4-32nds, assorted ..... per doz. $1.75



CORRUGATED BODY

No. **12**—Four Sizes, Points 2, 3, 4 and 5-32nds, assorted ..... per doz. 1.60



| | | | | | | |
|---|---|---|---|---|---|---|
| No. | **4**—Superior, | Square, | Blued, | Cup Point, 2, 3 and 4-32nds | per doz. | 1.50 |
| " | **819**—Marples', | " | Bright | | " | 0.90 |
| " | **820**— " | " | " | (Brad) | " | 0.90 |
| " | **927½**-Boker's | " | Black, | Cup Point | " | 0.65 |
| " | **927⅛**- " | " | " | Diamond Point | " | 0.65 |

## RIVET PUNCHES



No. **13**—Assorted, ⅛ to ¼ inch ..... per doz. 2.00

## PRICK PUNCHES



No. **10**—Pointed ..... per doz. 1.85

## CENTRE PUNCHES

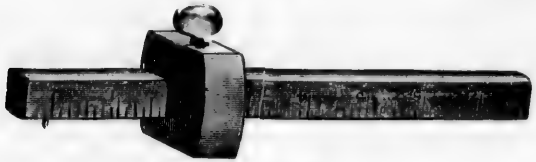


| | | | | | | |
|---|---|---|---|---|---|---|
| No. | **14** —Superior, | 3 Sizes, 8, 10 and 12-32nds, assorted | | | per doz. | 1.85 |
| " | **931E**—Boker's, | ½ x 5 inch | | | " | 1.85 |
| " | **931E**— " | ⅝ x 6 " | | | " | 2.60 |

One dozen in a box.

# IMPROVED MARKING AND MORTISE GAUGES

## STANLEY'S PATENT



No. 61

No. **0**—Marking Gauge, Beechwood, Boxwood Thumb Screw, Marked, Steel Point ..... per doz. $0.75
" **61**— " " " " " " " Oval Bar, Marked, Steel Point..... " 1.00



No. 65

No. **63**—Patent Marking Gauge, Beechwood, Polished, Boxwood Thumb Screw, Oval Bar, Marked, Adjusting Steel Point.....per doz. 2.00
" **64**—Patent Marking Gauge, Polished, Plated Head, Boxwood Thumb Screw, Oval Bar, Marked, Adjusting Steel Point.....per doz. 2.75
" **65**—Patent Marking Gauge, Boxwood, Polished, Plated Head, Brass Thumb Screw and Shoe, Oval Bar, Marked, Adjusting Steel Point.....per doz. 5.00



No. 78

No. **78**—Patent Mortise Gauge, Rosewood, Plated Head, Screw Slide, Brass Thumb Screw and Shoe, Oval Bar, Marked, Steel Points.....per doz. 11.00
" **79**—Patent Mortise Gauge, Rosewood, Plated Head and Bar, Screw Slide, Brass Thumb Screw and Shoe, Marked, Steel Points.....per doz. 13.00



No. 60

No. **60**—Patent Iron Marking and Cutting Gauge, Oval Bar, Marked, Adjusting Steel Point, equally well adapted for use on Metals or Wood.....per doz. 5.00

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## STANLEY'S BUTT AND RABBET GAUGE

For Hanging Doors, Mortising, Marking, Etc.

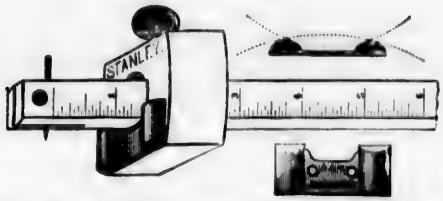



No. **92**—Improved Butt and Rabbet Gauge .....per doz. 15.00

Nos 0 to 64, one dozen in a box. Nos. 65 to 92, half-dozen.

# IMPROVED MARKING AND MORTISE GAUGES

## STANLEY'S PATENT




The Brass Face, with two ribs or protections, attached to one side of the Gauge-head (see Engraving), will enable the owner to run a gauge-line with perfect steadiness and accuracy around curves of any degree, and either concave or convex. The Gauge-head is reversible, and the flat side can be used for all ordinary work.

## MARKING GAUGES

| | | | |
|---|---|---|---|
| No. **161**—Beechwood, Boxwood Thumb Screw, Oval Bar, Steel Point | per dozen | $2.00 |
| " **162**— " " " Adjusting Steel Point | " | 3.00 |
| " **164**— " " " Plated Head, Adjusting Steel Point | " | 3.75 |
| " **165**—Boxwood, Brass Thumb Screw and Shoe, Plated Head, Adjusting Steel Point | " | 6.00 |

## MORTISE GAUGES

| | | |
|---|---|---|
| No. **171**—Double Gauge (Marking and Mortise), Beechwood, Plated Heads and Bars, Brass Thumb Screws and Shoes | per dozen | $9.00 |
| " **172**—Double Gauge (Marking and Mortise), Beechwood, Boxwood Thumb Screws | " | 5.00 |
| " **173**—Boxwood, Brass Slide, Plated Head, Brass Thumb Screw and Shoe | " | 9.00 |

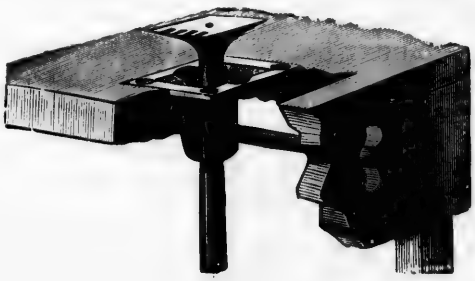
Nos. 161 to 164, one dozen in a box; Nos. 165 to 173, half-dozen.

## WOOD SCREW-BOXES AND TAPS



| Size | ⅜ | ½ | ⅝ | ¾ | ⅞ | 1 | 1⅛ | 1¼ | 1½ | 2 | 2½ | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. **845**—Marples'....each | $1.55 | 1.55 | 1.55 | 1.80 | 2.00 | 2.25 | 2.45 | 2.70 | 3.60 | 5.75 | 9.30 | |
| " **1477**—Boker's..... " | .... | 0.70 | 0 75 | 0.85 | 1.00 | 1.10 | 1.20 | .... | .... | .... | .... | |

## BENCH STOPS



No. 1



No. C1408

No. **1**—Cincinnati, with Side Screw Adjustment....per dozen $14.35

" **C1408**—Iron Bench Stops, with Screw Adjustment....per dozen 5.10

# BARTON'S COOPERS' TOOLS

## COOPERS' AXES



| | | |
|---|---|---|
| No. **119**—Black, No. 1, Tight Barrel | each | $4.50 |
| " **120**—Bright, No. 1, " | " | 5.00 |
| " **121**—Black, No. 2, Flour Barrel | " | 3.75 |
| " **122**—Bright, No. 2, " | " | 4.15 |

## HEADING SHAVES



| Size | **8** | **9** | **10** | **11** | **12** | **14** | inch. |
|---|---|---|---|---|---|---|---|
| No. **127** each | $2.00 | 2.30 | 2.55 | 2.85 | 3.15 | 3.65 | |

## BACKING SHAVES



| | | |
|---|---|---|
| No. **129**—7 in., Ordinary | each | $1.75 |
| " **129S**—7 in., Straighter | " | 1.75 |
| " **128**—Stave Shaves | " | 1.75 |

## COOPERS' ADZES



| | | |
|---|---|---|
| No. **123**—Black, No. 1, Tight Barrel | each | $4.15 |
| " **124** Bright, No. 1, " | " | 4.50 |
| " **125** - Black, No. 2, Flour Barrel | " | 3.75 |
| " **126**- Bright, No. 2, " | " | 4.15 |
| Horton Pattern, 5 to 5½ lbs. | " | 5.80 |

## HOOP SHAVES



| Size | **7** | **8** | inch. |
|---|---|---|---|
| No. **132** each | $1.60 | 1.85 | |

## HOLLOWING SHAVES



| Size | **5½** | **7** | inch. |
|---|---|---|---|
| No. **130** each | $1.75 | 1.75 | |

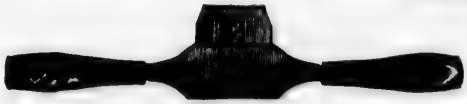
## CHAMPERING KNIVES



| | | |
|---|---|---|
| No. **134**—5 in., Right Hand | each | $2.55 |
| " **134**—5½ in., " | " | 2.85 |
| " **135**—6 in., Cleveland Pattern, 7 to 8 lbs. | " | 3.75 |

# COOPERS' TOOLS

## SPOKESHAVES





No. **138** —Boston Pattern, Black.....each $1.75
" **138B**— " " Bright..... " 2.00
" **225** —Extra Knives..... " 0.50

No. **138A**—Cleveland Pattern.....each $1.75

## COOPERS' V IRONS



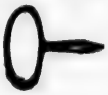
No. **143**.....per dozen $4.15

## COOPERS' RAISING IRONS



No. **140**.....per dozen $5.00

## COOPERS' VISES



No. **158**.....per dozen $8.25

## COOPERS' INSHAVES



No. **137**—Two Handles.....each $1.60
" **136**—One " ..... " 1.00

## COOPERS' SCRAPERS



No. **139** .....each 0.85

## COOPERS' DRIVERS





No. **169**—Coopers' Hickory Driver, with Iron Rings.....each 0.50
" **166**— " Iron Drivers, Short and Oval to 2¾ inch..... " 1.00

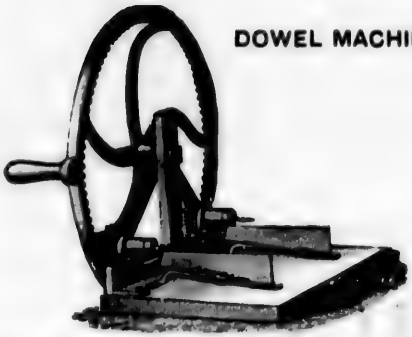
## COOPERS' HAMMERS



No. **162**.....each 2.50

# COOPERS' TOOLS

## DOWEL MACHINES

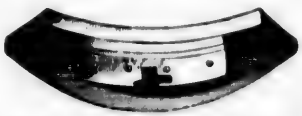


## DOWEL FORMS



No. **150**—Coopers' Dowel Machines ..... each $7.50
" **149**— " " Forms ..... " 2.10

## COOPERS' CROZES



No. **172** —V Crozes, Lignum-vitæ Heads, complete with V Irons ..... each $2.30
" **172S**—Lignum-vitæ Heads and Bolts, without V Irons ..... " 1.40
**178A**—Tight Barrel Crozes, Maple Boards, 15, 40 and 60 gallons ..... " 2.00

## COOPERS' HOWELS



No. **177A**—Tight Barrel, Applewood ..... each 2.00

## COOPERS' LEVELERS



No. **192**—Levelers, Applewood ..... each 1.80

## COOPERS' HEAD FLOATS



No. **196A**—With Apple Face ..... each 5.80

## COOPERS' JOINTERS



No. **198**—Coopers' Short, Maple, Jointers, 2½ feet long, Double Irons ..... per pair 5.30

A pair of Jointers consists of one Stave and one Heading Jointer.

## COOPERS' TRUSS HOOPS

No. **1** × 17½—Flour Barrel, 6 to set ..... per set 6.75
" **2** × 17½— " 6 " ..... " 6.25
" **1** × 14½—Fish Barrel, 6 " ..... " 5.65
" **1** × 17½—Bilge Hoops ..... each 1.10
" **1**—Head Hoops ..... " 1.10

These Hoops are made of the best young second-growth hickory, and are rounded and dried on heated cylinders to make them perfectly round and accurate gauge. They are the regular ordinary style Hoop, riveted and burred with two extra cross rivets.

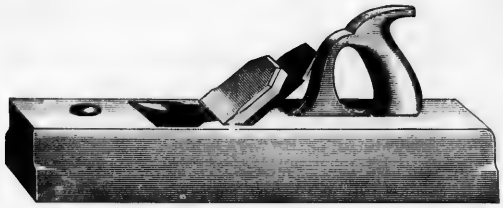
# CARPENTERS' PLANES



SMOOTH



JACK



FORE

## BENCH PLANES

With Start Pins and best Cast Steel Double Irons.

| | | | |
|---|---|---|---|
| No. **5**—Smooth Plane, 2 inch Cutter | each | $1.05 |
| " **6**— " " 2¼ " " | " | 1.10 |
| " **7**— " " 2⅜ " " | " | 1.15 |
| " **12**—Handled Smooth Plane, 2 inch Cutter | " | 1.70 |
| " **18**—Jack Plane, 2 inch Cutter, Length 18 inches | " | 1.30 |
| " **19**— " " 2⅜ " " " 18 " | " | 1.40 |
| " **29** - Fore " 2¼ " " " 22 " | " | 1.85 |
| " **39**—Jointer " 2½ " " " 26 " | " | 2.00 |
| " **40**— " " 2⅝ " " " 26 " | " | 2.10 |

## MATHIESON'S SCOTCH BENCH PLANES

| | | | | |
|---|---|---|---|---|
| Size | 2⅛ | 2¼ | 2⅜ | inch. |
| Smooth Plane, Cast Steel Double Irons, each | $1.60 | 1.70 | 1.80 | |
| Handled Smooth, " " " | 2.60 | 2.70 | .... | |
| Jack, " " " | 2.00 | 2.10 | 2.30 | |
| Size | 22×2½ | 24×2½ | 26×2½ | inch. |
| Trying Plane, Cast Steel Double Irons, each | $2.70 | 2.90 | 3.00 | |



MATCH



SKEW RABBET

## MATCH PLANES

| | | | | | |
|---|---|---|---|---|---|
| Nos. | 68 | 69 | 70 | 71 | |
| Size | ¼ to ⅝ | ¾ | ⅞ | 1 | inch. |
| Per pair | $1.30 | 1.40 | 1.50 | 1.60 | |

## TWIN MATCH

| | | | | |
|---|---|---|---|---|
| Nos. | 78 | 79 | 80 | |
| Size | ¾ | ⅞ | 1 | inch. |
| Each | $1.40 | 1.50 | 1.60 | |

## HANDLED FLOORING MATCH

No. **81**—¾ to 1 inch ..... per pair $2.50

## SKEW RABBET

| | | | | | | |
|---|---|---|---|---|---|---|
| Nos. | 61 | 62 | 63 | 64 | 65 | |
| Size | ¼ to 1 | 1⅛ | 1¼ | 1⅜ | 2 | inch. |
| Each | $0.65 | 0.70 | 0.75 | 0.80 | 0.90 | |

## MATHIESON'S SCOTCH SKEW RABBET PLANES

| | | | | | |
|---|---|---|---|---|---|
| Size | ⅞ to 1¼ | 1½ | 1¾ | 2 | inch. |
| Each | $1.00 | 1.15 | 1.30 | 1.40 | |

# PLANES

## HOLLOWS AND ROUNDS





| Nos. | 243 | 244 | 245 | 246 | 247 | 248 |
|---|---|---|---|---|---|---|
| Size | 2 to 8 | 10 to 12 | 14 | 16 | 18 | 20 |
| Per pair | $1.10 | 1.15 | 1.20 | 1.30 | 1.35 | 1.40 |

## MATHIESON'S SCOTCH HOLLOWS AND ROUNDS

| Size Nos. | 2 to 12 | 14 | 16 | 18 | 20 |
|---|---|---|---|---|---|
| Per pair | $1.75 | 1.80 | 2.00 | 2.35 | 2.80 |



SIDE BEAD



CENTRE BEAD

## SINGLE BOXED SIDE BEADS

| Nos. | 87 | 88 | 89 | 90 | 91 | 92 | 93 |
|---|---|---|---|---|---|---|---|
| Size | ⅛ to ¼ | ⅜ | ½ | ¾ | 1 | 1¼ | 1½ inch. |
| Per pair | $0.60 | 0.65 | 0.70 | 0.80 | 0.90 | 1.00 | 1.10 |

## CENTRE BEADS

| Nos. | 99 | 100 | 101 | 102 | 103 | 104 |
|---|---|---|---|---|---|---|
| Size | ⅛ to ¼ | ⅜ to ½ | ⅝ | ¾ | ⅞ | 1 inch. |
| Each | $0.70 | 0.80 | 0.90 | 0.95 | 1.00 | 1.10 |

## MATHIESON'S SCOTCH SIDE AND CENTRE BEADS

Side Bead, ⅛, 3/16, ¼, 5/16, ⅜, 7/16 or ½ inch.....each $1.00
Centre Bead, ⅛, 3/16, ¼, 5/16 or ⅜ inch.....“ 1.35



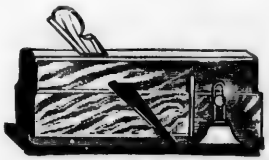
NOSING

No. 268—¼ to ⅜ inch Dado Plane, with Iron Side Stop.....each $1.20
“ 269—⅜ “ ½ “ “ “ “ “ “ “ “.....“ 1.25
“ 225—1¼ inch Nosing “ “ Two Irons.....“ 1.40
“ 226—1⅜ “ “ “ “ “ “ “.....“ 1.45

## MATHIESON'S SCOTCH STEP NOSING PLANES

WITH TWO IRONS

| Size | 1¼ | 1⅜ | 1½ inch. |
|---|---|---|---|
| Each | $2.90 | 3.00 | 3.20 |



FILLETSTERS

No. 253—Plain.....each $1.75
“ 254—Single Slip.....“ 2.00
“ 255—Brass Screw Stop.....“ 2.60

# PLANES



TABLE PLANES



QUARTER ROUNDS



STAIR COVES, OR SCOTIAS

## TABLE PLANE, WITH GAUGE

No. **272**—$\frac{1}{4}$ to $\frac{5}{8}$ inch ..... per pair $1.25

## QUARTER ROUNDS

| Nos. | **210** | **211** | **212** | **213** | **214** | **215** | |
|---|---|---|---|---|---|---|---|
| Size | $\frac{1}{2}$ to $\frac{7}{8}$ | $\frac{7}{8}$ to 1 | $1\frac{1}{8}$ | $1\frac{1}{4}$ | $1\frac{3}{8}$ | $1\frac{1}{2}$ | inch. |
| Each | $0.75 | 0.80 | 0.90 | 1.00 | 1.10 | 1.20 | |

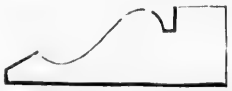
## COVES, OR SCOTIAS

| Nos. | **216** | **217** | **218** | **219** | **220** | **221** | |
|---|---|---|---|---|---|---|---|
| Size | $\frac{1}{2}$ to $\frac{7}{8}$ | $\frac{7}{8}$ to 1 | $1\frac{1}{8}$ | $1\frac{1}{4}$ | $1\frac{3}{8}$ | $1\frac{1}{2}$ | inch. |
| Each | $0.75 | 0.80 | 0.90 | 1.00 | 1.10 | 1.20 | |



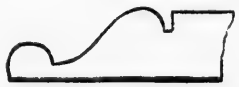
GRECIAN OGEE

No. **157**—$\frac{5}{8}$x$\frac{3}{4}$ to $\frac{1}{2}$x1 inch..each $1.05
" **158**—$\frac{3}{4}$x1$\frac{1}{4}$ " $\frac{3}{4}$x1$\frac{1}{2}$ " .. " 1.25
" **159**—$\frac{7}{8}$x1$\frac{1}{4}$ " 1x2 " .. " 1.35



GRECIAN OGEE AND BEVEL

No. **166**—$\frac{3}{4}$x $\frac{3}{4}$ to $\frac{1}{2}$x1 inch..each $1.20
" **167**—$\frac{3}{4}$x1$\frac{1}{4}$ " $\frac{3}{4}$x1$\frac{1}{2}$ " .. " 1.30
" **168**—$\frac{7}{8}$x1$\frac{1}{4}$ " 1x2 " .. " 1.40



QUIRK OGEE AND BEAD

No. **155**—$\frac{3}{4}$x $\frac{3}{4}$ to $\frac{1}{2}$x1 inch..each $1.20
" **156**—$\frac{3}{4}$x1$\frac{1}{4}$ " 1x2 " .. " 1.30

## SASH PLANES

**With Two Irons.**



OGEE SASH



SASH OVOLOS

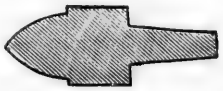
No. **230**—1$\frac{1}{4}$ to 1$\frac{1}{2}$ inch..... each $1.50
" **231**—1$\frac{3}{4}$ " 2 " ..... " 1.60

No. **228**—1$\frac{1}{4}$ to 1$\frac{1}{2}$ inch..... each $1.50
" **229**—1$\frac{3}{4}$ " 2 " ..... " 1.60



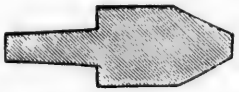
LAMB TONGUE SASH

No. **232**—1$\frac{1}{4}$ to 1$\frac{1}{2}$ inch ...each $1.50
" **233**—1$\frac{3}{4}$ " 2 " ... " 1.60



GOTHIC SASH

No. **234**—1$\frac{1}{4}$ to 1$\frac{1}{2}$ inch ...each $1.50
" **235**—1$\frac{3}{4}$ " 2 " ... " 1.60



BEVEL SASH

No. **236**—1$\frac{1}{4}$ to 1$\frac{1}{2}$ inch....each $1.50
" **237**—1$\frac{3}{4}$ " 2 " .... " 1.60

For any of the above Sash Planes, Boxed, add 25c. to list.

## PLOW PLANES

No. **258**—Ironwood, Screw Arms ..... each $6.00
" **259**— " " " Handled ..... " 7.00
" **260**—Boxwood, " " ..... " 7.50
" **261**— " " " Handled ..... " 8.50
" **262**—Rosewood, Box Screw Arms ..... " 9.00
" **263**— " " " " Handled ..... " 10.00
" **264**—Boxwood " " " ..... " 10.00
" **265**— " " " " Handled ..... " 11.00

# IRON PLANES

## STANLEY IRON BLOCK PLANES



No. **101**—Block Plane, 3½ inches in length, 1 inch Cutter.....each $0 20



No. **102**—Block Plane, 5½ inches in length, 1¼ inch Cutter.....each 0 40



No. **103**—Block Plane, Adjustable, 5½ inches in length, 1⅛ inch Cutter .....each 0.60



No. **110**—Block Plane, 7½ inches in length, 1⅝ inch Cutter.....each $0.60

" **120**—Block Plane, Adjustable, 7½ inches in length, 1⅝ inch Cutter .....each 0.85



No. **130**—Block Plane (Double-Ender), 8 inches in length, 1⅜ inch Cutter.....each 0.80

This Plane has two slots, and two Cutter Seats. It can be used as a Block Plane, or, by reversing the position of the cutter and the clamping wedge (see dotted lines in the engraving), it can be used to plane close up into corners.

## BAILEY'S ADJUSTABLE BLOCK PLANES

WITH IMPROVED THROAT ADJUSTMENT

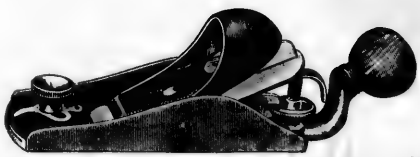


No. **9½**—Block Plane, 6 in. length, 1⅝ in. Cutter.each $1.50

" **15**— " " 7 " " 1⅝ " " " 1.60

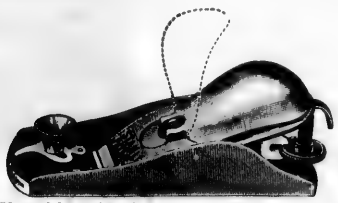
" **16**—Block Plane, Nickel Trimmings, 6 in. length, 1⅝ in. Cutter .....each 1.65

" **17**—Block Plane, Nickel Trimmings, 7 in. length, 1⅝ in. Cutter .....each 1.75



No. **9¾**—Rosewood Handle, 6 in., 1⅝ in. Cutter.each $1.75

" **15½**— " " 7 " 1⅝ " " " " 1.85



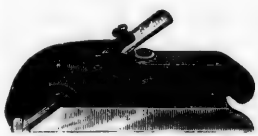
The Knuckle-Joint in the cap makes it a lever too; and placing the cap in position, will also clamp the Cutter securely in its seat.

each

No. **18**—Nickel Trimmings, 6 in. length, 1⅝ in. Cutter. $1.75

" **19**— " " 7 " " 1⅝ " " " 1.85

## STANLEY IRON RABBET PLANES



No. 75



No. 98



No. 140

No. **75**—Bull Nose, Rabbet Plane, 4 inches in length, 1 inch Cutter.....each $0 50

" **98**—Side Rabbet Plane, length 4 inches, Right Hand..... " 1.35

" **99**— " " " " 4 " Left " ..... " 1.35

" **140**—Rabbet and Block Plane with Detachable Side, length 7 inches, 1¾ inch Cutter..... " 1.90

The No. 140 Plane has Detachable Side, can be easily changed from a Block Plane to a Rabbet Plane or vice versa. The Cutter is set on a skew. No. 101 half-dozen, all others one in a box.

# IRON PLANES

## BAILEY'S PATENT ADJUSTABLE



Nos. 3 to 4½



Nos. 5 to 8

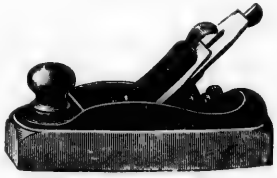
| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| No. **3** | —Smooth Plane, | 8 | inches in Length, | 1¾ | inch Cutter | | | each | $3 00 |
| " **4** | — " | " 9 | " | " 2 | " | " | | " | 3.25 |
| " **4½** | — " | " 10 | " | " 2⅜ | " | " | | " | 3.75 |
| " **5** | —Jack | " 14 | " | " 2 | " | " | | " | 3.75 |
| " **6** | —Fore | " 18 | " | " 2⅜ | " | " | | " | 4.75 |
| " **7** | —Jointer | " 22 | " | " 2⅜ | " | " | | " | 5.50 |
| " **8** | — " | " 24 | " | " 2⅜ | " | " | | " | 6.50 |



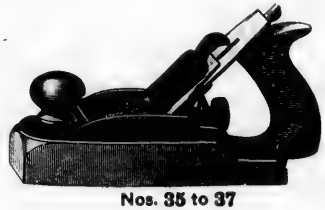
Nos. **104** and **105**, Wrought Steel Stock

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| No. **104** | —Smooth Plane, | 9 | inches in Length, | 2½ | inch Cutter | | | each | 2.75 |
| " **105** | —Jack | " 14 | " | " | 2⅜ | " | " | " | 3.50 |

## BAILEY'S WOOD PLANES

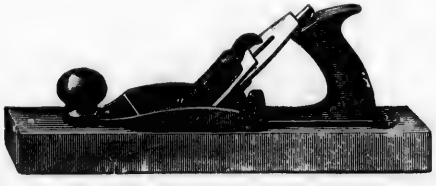


Nos. 22 to 24



Nos. 35 to 37

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| No. **22** | —Smooth Plane, | 8 | inches in Length, | 1¾ | inch Cutter | | | each | 2.00 |
| " **24** | — " | " 8 | " | " 2 | " | " | | " | 2.00 |
| " **35** | —Handle Smooth Plane, | 9 | inches in Length, | 2 | inch Cutter | | | " | 2.50 |
| " **36** | — " | " 10 | " | " | 2⅜ | " | " | " | 2.75 |
| " **37** | —Jerny | " 13 | " | " | 2⅜ | " | " | " | 3.00 |



| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| No. **26** | —Jack Plane, | 15 | inches in Length, | 2 | inch Cutter | | | each | 2.25 |
| " **27** | — " | " 15 | " | " | 2⅜ | " | " | " | 2.50 |
| " **29** | —Fore | " 20 | " | " | 2⅜ | " | " | " | 2.75 |
| " **30** | —Jointer | " 22 | " | " | 2⅜ | " | " | " | 3.00 |
| " **33** | — " | " 28 | " | " | 2⅜ | " | " | " | 3.25 |

One in a box.

# IRON PLANES

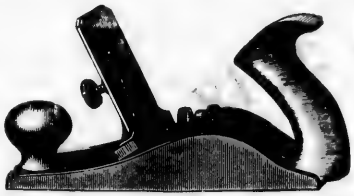
## STANLEY'S ADJUSTABLE CIRCULAR PLANE



No. **113**—Adjustable Circular, 1¾ inch Cutter ..... each **$4.00**

This Plane has a flexible Steel Face, which can be easily shaped to any required arc, either concave or convex, by turning the Knob on the front of the Plane.

## ADJUSTABLE SCRAPER PLANE



This Tool is used for scraping and finishing Veneers or Cabinet-work. It can be used equally well as a Tooth Plane; and will do excellent work in scraping off old paint and glue.

No. **112**—Adjustable Scraper Plane, 9 inches, 3 inch Cutter..... each **$3.00**

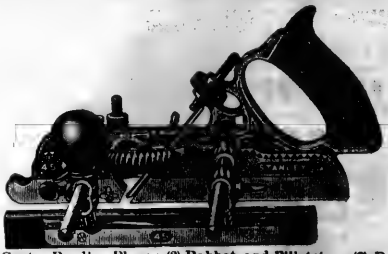
## IMPROVED SCRUB PLANE



This Tool has a single Iron, with the cutting edge rounded. It is particularly adapted for roughing down work before using a Jack or other Plane.

No. **40**—Iron Stock, 9½ inches in length, 1¼ inch Cutter..... each **$1.50**

## STANLEY'S ADJUSTABLE BEADING, RABBET AND MATCHING PLANE

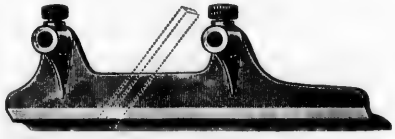


This Plane embraces (1) Beading and Center Beading Plane; (2) Rabbet and Filletster; (3) Dado; (4) Plow; (5) Matching Plane; (6) Sash Plane; and (7) a superior Slitting Plane. Each Plane has seven Beading Tools (1-8, 3-16, 1-4, 5-16, 3-8, 7-16 and 1-2 inch), ten Plow and Dado Bits (1-8, 3-16, 1-4, 5-16, 3-8, 7-16, 1-2, 5-8, 3-4 and 7-8 inch), a Slitting Blade, a Tonguing Tool and a Sash Tool.

No. **45**—Nickel-Plated, with Twenty Tools, Bits, etc..... each **$12.00.**

### HOLLOWS AND ROUNDS, FOR PLANE No. 45





| Nos | 6 | 8 | 10 | 12 | |
|---|---|---|---|---|---|
| Cutter | ½ | ⅝ | ¾ | 1 inch | wide. |
| Works | ¾ | 1 | 1¼ | 1½ " | circle. |
| Price ..... per pair | $2.10 | 2.10 | 2.10 | 2.10 | |

### NOSING TOOL, FOR PLANE No. 45

No. **5**—Nosing Tool, 1¼ inch (attach same as above), each ..... **$1.50**

### REEDING TOOLS, FOR PLANE No. 45

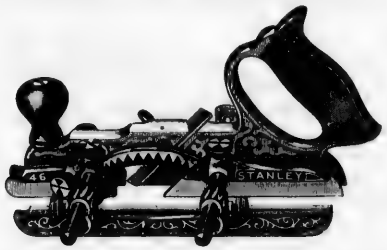
Additional Tools for Reeding, consisting of two, three, four or five Beads each will be furnished to order at prices given below. They can only be used with Plane No. 45.

Size of Beads, either 1-8, 3-16 or 1-4 inch—2 Beads, 30c.; 3 Beads, 45c.; 4 Beads, 60c.; 5 Beads, 75c. each.

One in a box.

# IRON PLANES

## TRAUT'S PATENT ADJUSTABLE DADO FILLETSTER, PLOW, ETC.




This Tool is accompanied by eight Plow and Dado Bits ($\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{7}{8}$ and $1\frac{1}{4}$ inch), a Filletster Cutter, a Slitting Blade, and a Tonguing Tool. All except the Slitting Blade are secured in the main stock on a *skew*.

### ADJUSTABLE DADO FILLETSTER, PLOW, ETC.

No. **46**—Nickel-Plated Stock and Fence.....each $10.50

### ADJUSTABLE DADO

Including Bits $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{7}{8}$ and $1\frac{1}{4}$ inch.

No. **47**—Nickel-Plated Stock and Fence.....each $6.00

## TONGUING AND GROOVING PLANE

The Plane has two separate cutters, a suitable distance apart. When the guide, or fence, is set as shown below, both cutters work and a tongue can be made.



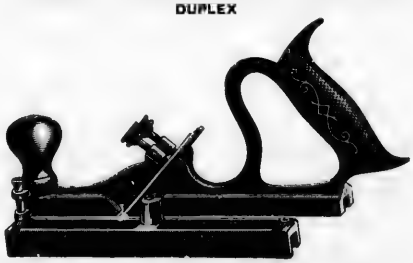
The fence is hung on a pivot, and can be swung around, end for end. This movement covers one of the cutters, and also furnishes a guide for grooving an exact match for the tongue.

**Prices, including Tonguing and Grooving Tools.**

No. **48**—Iron Stock and Fence, for $\frac{3}{4}$ to $1\frac{1}{4}$ inch Boards.....each $3.75
" **49**— " " " " " $\frac{5}{8}$ " $\frac{3}{4}$ " " .....each 3.75

## RABBET PLANE AND FILLETSTER

DUPLEX



Remove the arm to which the fence is secured, and a Handled Rabbet Plane is had; and with two seats for the cutter, so that the tool can be used as a Bull-Nose Rabbet if required.

The construction of the stock is such that the Plane will lie perfectly flat on either side, and can be used with right or left hand equally well, while planing into corners or up against perpendicular surfaces.

The arm to which the fence is secured can be screwed into either side of the stock, thus making a superior right or left hand Filletster, with adjustable spur and depth gauge.

No. **78**—Iron Stock and Fence, $8\frac{1}{2}$ inches in length, $1\frac{1}{2}$ inch Cutter.....each $2.25
One in a box.

# PATENT FLOOR PLANE



This Tool will be found useful for planing Floors, Bowling Alleys, Skating Rinks, Decks of Vessels, etc. The construction of the Plane will enable the owner to do more work, and with less outlay of strength, than can be done with any other tool. The weight of the Plane is about 10 pounds, and the full length of the handle 45 inches.

No. **74**—Floor Plane, 10½ inches in length, 2⅜ inch Cutter ..... each $6.75

## BAILEY'S ADJUSTABLE VENEER SCRAPER



No. 12

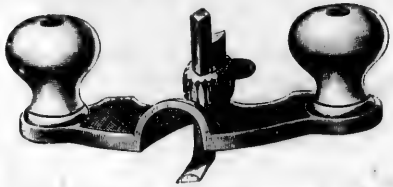


No. 83

No. **12**—Adjustable Veneer Scraper, 3 inch Cutter ..... each $3.50
" **83**—Wood Scraper, with Handles and Roller, 3 inch Blade ..... " 1.00

## WOODWORKER'S HANDY ROUTER PLANE



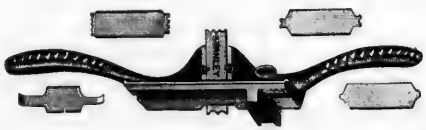





This Tool will smooth the bottom of grooves, panels, or all depressions below the general surface of any woodwork; and will rapidly router out mortises for Sash-frame Pulleys, etc.

No. **71**—Nickel-Plated, with Steel Bits (¼ and ½ inch) ..... each $2.25

## STANLEY'S UNIVERSAL HAND BEADER





SAMPLE OF WORK DONE BY BEADER

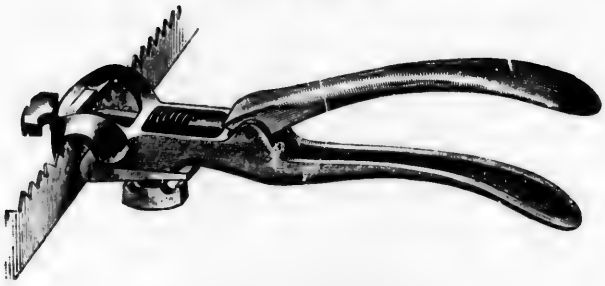
For Beading, Reeding or Fluting, straight or irregular surfaces and for all kinds of light Routering. With a square gauge for straight, and an oval gauge for curved work.

Both ends of the Cutters are sharpened, thus embracing six ordinary sizes of Beads, four sets of Reeds, two Fluters, and a double Router Iron (⅛ and ¼ inch).

No. **66**—Iron Stock, with seven Steel Cutters ..... each $1.50

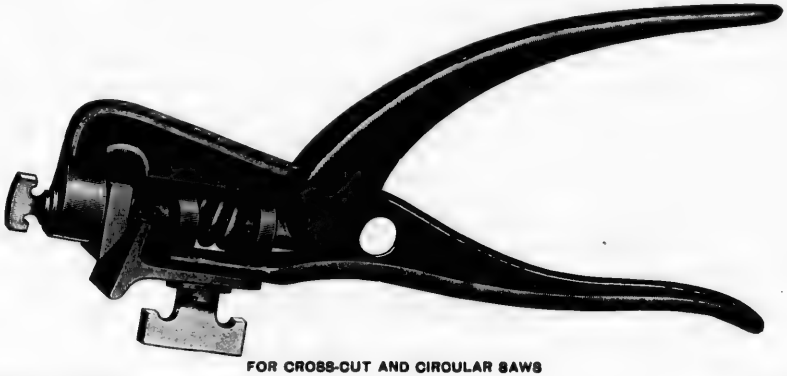
One in a box.

# SAW SETS



FOR HAND AND TENON SAWS

No. **1**—Perfect, Polished ..... per doz. $5.85



FOR CROSS-CUT AND CIRCULAR SAWS

No. **3**—Perfect, Japanned ..... per doz. 11.65

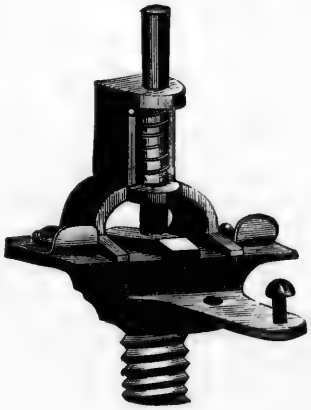
No. 1 packed one in a box. No. 3 half-dozen in a wood box.



No. 431



No. 432



No. **431**—Bright, Forged Steel, Turnscrew Handle..... per doz. 4.60

" **432**— " " " Varnished Wood Handle..... " 4.95

One dozen in a box.

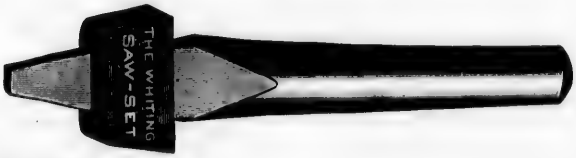
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## HAMMER SAW SETS

No. **771**—Wynn's Hammer Saw Sets..... per doz. 7.10

Half-dozen in a package.

# SAW SETS




The Whiting, for Cross-Cut Saws ..... per doz. $9.00

One in a box.




The Lincoln, for Cross-Cut Saws ..... per doz. 9.00

One in a box.

## THE CONQUEROR SWAGE, JUMPER OR UPSET

No. 1




No. 2




No. 3




| | Each |
|---|---|
| No. 1—For large Circular Saws, as per cut | $4.20 |
| " 2—For small Circular and Mill Saws | 3.60 |
| " 3—For Band Saws and small Circular Saws | 3.00 |

One in a box.

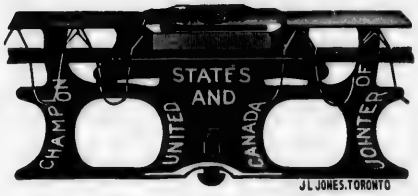
The lower opening in the Swage being rounding on the bottom, takes its bearing on the centre of the tooth, spreading and shaping it as shown on section of tooth *H*. The upper opening (in which section of tooth is inserted) is used for squaring up, and leaves the tooth as shown at *G*.

The teeth of a saw require to be swaged to a sharp, keen edge, and the bottom of the openings in the Conqueror being slotted it is impossible to blunt or injure the fine cutting edge of the tooth, which is frequently done by other swages. One of the principal drawbacks in the manufacture of solid swages has been the difficulty experienced in properly hardening them at the bottom of the opening, which portion of swage does all the work, and requires to be hardened in the most perfect manner.

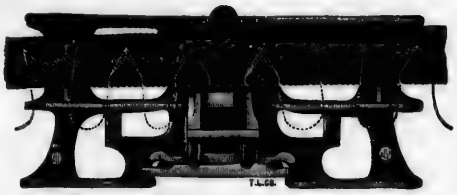
The Conqueror is hardened before the sleeve is driven on, and the hardening composition passes freely through the slots at the bottom of the openings, thus insuring an even and correct hardening in that portion of the swage where it is most required.

# SAW GAUGES AND JOINTERS

## CHAMPION SAW GAUGE AND JOINTER




THE "CHAMPION" SAW GAUGE AS A DRAG TOOTH JOINTER.



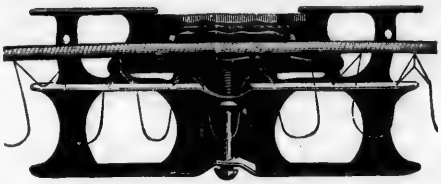
THE "CHAMPION" COMBINED SAW GAUGE AND JOINTER AS A SIDE-FILER.

Champion Combination Saw Gauge, Jointer and Side Filer.....per doz. $3.00

One dozen in a box.

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## EUREKA SAW TOOLS



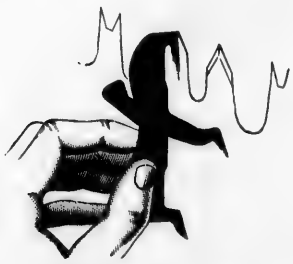
JOINTER




RAKER TOOTH GAUGE



SETTING BLOCK



TOOTH SET GAUGE

Eureka Combination Saw Tools, comprising a combined Saw Filer, Jointer and Raker Tooth Gauge, Setting Block and Tooth Set Gauge. One set in a box.....per doz. sets $10.00

Eureka Saw Jointers. One dozen in a box.....per doz. 3.00

# SAW GAUGES AND GUMMERS



GAUGE FOR REGULATING CLEANING TEETH

No. **15**—Saw Gauges, Hardened Steel ..... per doz. $0.60

The cleaning teeth of all saws should be somewhat shorter than the cutting teeth, and although shorter should be a uniform length throughout. With the use of this Gauge the teeth can be rapidly and correctly reduced to an even length.

## NEW DOMINION SAW GUMMERS

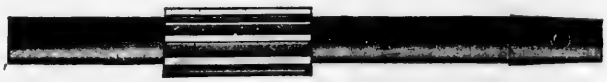


No. **0**—For Cross Cut Saws, complete with one cutter grinder, one crank, one set of boxes and one cutter, $\frac{3}{8}$ and $\frac{1}{2}$ inch ..... each $8.00

" **1**—For Circular Saws, complete with two cutter grinders, two cranks, two sets of boxes, and one cutter, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$ and $\frac{7}{8}$ inch ..... each 12.00

" **2**—For Circular Saws, complete with three cutter grinders, three cranks, three sets of boxes, one arbor and one cutter, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$ and 1 inch ..... each 16.00

## SAW GUMMER CUTTERS



### SOLID

| Size | ¼ | 5/16 | ⅜ | ½ | ⅝ | ¾ | ⅞ | 1 | inch. |
|---|---|---|---|---|---|---|---|---|---|
| Per dozen | $6.60 | 6.60 | 6.60 | 6.60 | 9.90 | 13.20 | 16.50 | 19.80 | |

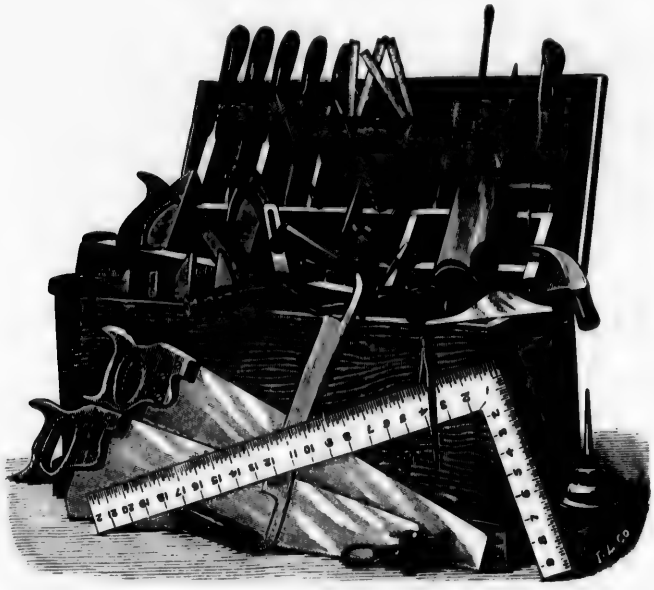
### HOLLOW CUTTERS TO RUN ON ARBOR

FOR NEW DOMINION GUMMERS

| Size | ¾ | ⅞ | 1 | 1⅛ | 1¼ | 1⅜ | inch. |
|---|---|---|---|---|---|---|---|
| Per dozen | $8.00 | 9.15 | 10.60 | 12.00 | 13.25 | 14.60 | |

# TOOL CHESTS

**Superior quality of Tools, selected from our own Stock.**



No. **1**—Contains 16 inch Hand Saw, 8 inch Brace, $\frac{5}{16}$ and $\frac{7}{16}$ Bits, Hammer, Screw Driver, 2 foot Rule, Steel Square, Block Plane, Mallet, $\frac{1}{2}$ inch Chisel and Handle, Bracket Saw and 4 Blades, Brad Awl, Oil Stone, Oil Can, and Carpenter's Pencil. Complete in Chest 23x10x10 inch, with Lock and Key ..... each **$3.60**

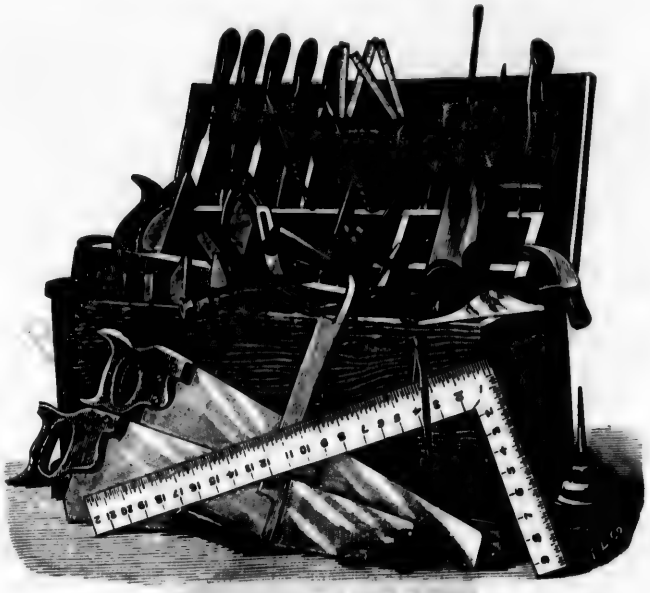
" **2**—Contains 23 inch Hand Saw, 8 inch Brace, $\frac{5}{16}$ and $\frac{7}{16}$ Bits, Hammer, Screw Driver, 2 foot Rule, Steel Square, Block Plane, Mallet, 10 inch Wrench, $\frac{5}{16}$ and $\frac{1}{2}$ Chisel and Handles, $\frac{1}{2}$ Gouge and Handle, 6 inch Dividers, 2 inch Spokeshave, 4 inch Saw File, Bracket Saw and 4 Blades, Oil Stone, Oil Can, Brad Awl, Carpenter's Pencil, Bottle of Glue, and 3 sheets Sand Paper. Complete, in Chest 26x12x12 inch, with Lock and Key ..... each **6.00**

" **3**—Contains 23 inch Hand Saw, 23 inch Rip Saw, 8 inch Brace, $\frac{5}{16}$, $\frac{1}{4}$ and $\frac{5}{16}$ Bits, Hammer, Mallet, Screw Driver, 2 foot Rule, Steel Square, Block Plane, 10 inch Wrench, $\frac{5}{16}$, $\frac{1}{2}$ and $\frac{3}{4}$ inch Chisels and Handles, $\frac{1}{2}$ Gouge and Handle, pair 6 inch Dividers, 2 inch Spokeshave, Saw File and Handle, Bracket Saw and 4 Blades, Oil Stone, Oil Can, Brad Awl, Gimlet, Hand Vice, Sliding T Bevel, pair Carpenter's Pincers, 24 inch Clamps, Level, Marking Gauge, Nail Set, Tin of Glue, 6 sheets Sand Paper, and Carpenter's Lead Pencil. Complete, in Chest 26x12x12 inch, with Lock and Key ..... each **9.00**

" **4**—Contains 23 inch Hand Saw, 23 inch Rip Saw, 10 inch Brace, $\frac{5}{16}$, $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{1}{2}$ Bits, Countersink Bit, 2 Screw Drivers, 2 foot Rule, Steel Square, Hammer, Mallet, Iron Block Plane, Wood Jack Plane, Drawknife, 2 4-inch Clamps, 10 inch Wrench, Marking Gauge, Sliding T Bevel, Spirit Level, Carpenter's Pincers, $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$ inch Chisels and Handles, $\frac{5}{16}$ and $\frac{1}{2}$ inch Gouge and Handles, Hand Vice, Spokeshave, Bracket Saw and 4 Blades, 6 inch Dividers, Oil Can, Oil Stone, Brad Awl, Carpenter's Pencil, Gimlet, Saw File and Handle, 8 inch Flat File and Handle, Soldering Iron, Tin of Glue, and 12 sheets of Sand Paper. Complete, in Chest 26x12x12 inch, with Lock and Key ..... each **12.00**

# TOOL CHESTS

**Superior quality of Tools, selected from our own stock.**



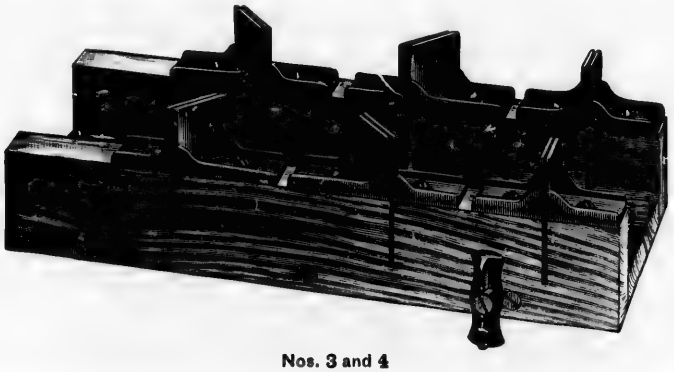
**No. 5**—Contains 24 inch Hand Saw, 26 inch Rip Saw, 8 inch Compass Saw, 10 inch Brace, $\frac{5}{16}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$ and $\frac{3}{4}$ inch Brace Bits, Countersink and Turn Screw Bit, 2 Screw Drivers, 2 ft. Rule, Steel Square, Hammer, Mallet, 10 inch Wrench, pair 6 inch Pincers, pair 6 inch Dividers, Try Square, Sliding T Bevel, Steel Square, Wood Smooth and Jack Planes, Draw Knive, $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$ inch Chisels and Handles, $\frac{5}{16}$ and $\frac{1}{2}$ inch Gouge and Handles, Spokeshave, Marking Gauge, Spirit Level, Hand Vice, 2, 4-inch Clamps, 2 Brad Awls, Gimlet, Hatchet, Bracket Saw with 4 Blades, 5 inch Saw File and Handle, 8 inch Flat File and Handle, 8 inch Cabinet Rasp, Oil Stone, Oil Can, Nail Set, 5 inch Plyers, Glass Cutter, Tin of Glue, and 12 sheets of Sand Paper. Complete in Chest, 33x16x16 inch, with Handles, Lock and Key...each $18.00

**No. 6**—Contains 24 inch Hand Saw, 26 inch Rip Saw, 8 inch Back Saw, 12 inch Compass Saw, 10 inch Brace $\frac{5}{16}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$ and $\frac{3}{4}$ inch Brace Bits, Countersink and Turn Screw Bits, 3 Screw Drivers, 3, 5 and 6 inch, 2 Hammers, Mallet, 2 ft. Rule, Steel Square, Sliding T Bevel, Level, Wood Smooth and Jack Planes, Draw Knife, 10 inch Wrench, Spokeshave, Marking Gauge, pair 6 inch Dividers, pair 6 inch Carpenter's Pincers, $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ and 1 inch Chisel and Handles, $\frac{5}{16}$ and $\frac{1}{2}$ inch Gouge and Handle, 2 Brad Awls, Gimlet, Hatchet, Bracket Saw and 4 Blades, Oil Can, Oil Stone, Bench Vice, Cabinet Rasp and Handle, Saw File and Handle, 8 inch Flat File and Handle, pair 5 inch Plyers, Tack Claw Glass Cutter, Soldering Iron, Bench Screw, Nail Set, Tin of Glue, 2, 4-inch Clamps, 12 sheets Sand Paper, Carpenter's Lead Pencil. Complete in Chest, 33x16x16 inch, with Handles, Lock and Key.....each 24.00

**No. 7**—Contains 24 inch Hand Saw, 26 inch Rip Saw, 12 inch Compass Saw, 8 inch Back Saw, 10 inch Brace, $\frac{5}{16}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{3}{4}$ and 1 inch Brace Bit, Countersink and Turn Screw Bits, 2 Screw Drivers, 4 and 6 inch, 2 Hammers, Mallet, 2 ft. Rule, Steel Square, Try Square, Sliding T Bevel, Level, Wood Smooth and Jack Plane, Draw Knife, Spokeshave, 10 inch Wrench, 2, 4-inch Clamps, Bench Screw, Bench Vice, $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ and 1 inch Socket Chisel and Handles, $\frac{5}{16}$ and $\frac{1}{2}$ inch Gouge and Handles, Hatchet, pair 6 inch Pincers, pair 6 inch Dividers, pair 6 inch Combination Plyers, 2 Brad Awls, Gimlet, Oil Can, Oil Stone, Marking Gauge, Bracket Saw and 4 Blades, Cabinet File, Saw File, Flat File with Handles, Nail Set, Soldering Iron, Glass Cutter, Tack Claw, Tin of Glue, 12 sheets Sand Paper, Carpenter's Lead Pencil. Complete in Chest, 33x16x16 inch, with Handles, Lock and Key.....each 30.00

**The chests for Sets Nos. 5 to 7 have drop front, with separate compartment for Saws and two Trays.**

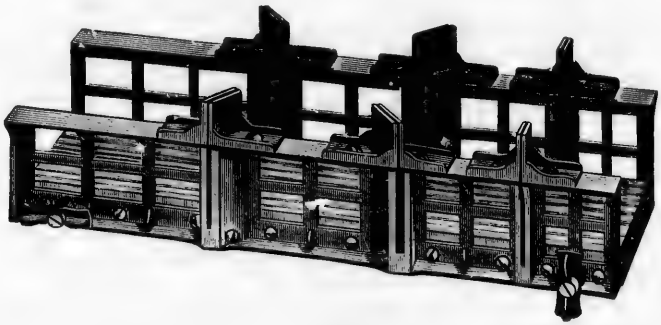
# OLMSTED'S IMPROVED MITRE BOXES



**Nos. 3 and 4**

The frame is made of hardwood, 1 inch thick. The irons are made sufficiently high and broad to make a good bearing upon the saw blade, and spaced sufficient to allow the saw to move freely.

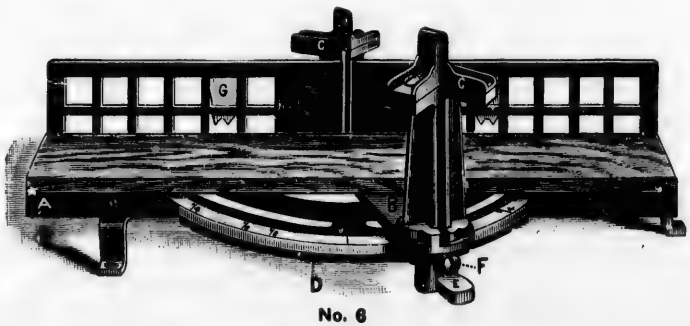
No. 3—Will saw moulding 1½ × 3 inches ..... each $2.00
" 4— " " 2½ × 4 " ..... " 2.85



**No. 5**

The frame of this Box is made of iron, a thin board being fastened to the bottom as a strike.

No. 5—Will saw moulding 2½ × 4 inches ..... each 6.00

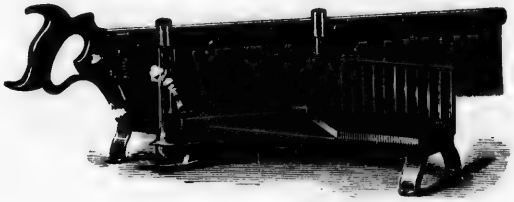



**No. 6**

Adjustable saw guides and notches, with device for holding work fast while sawing.

No. 6—Will take work 4 inches wide at mitre and 6 inches wide at right-angles..... ..... each 8.10

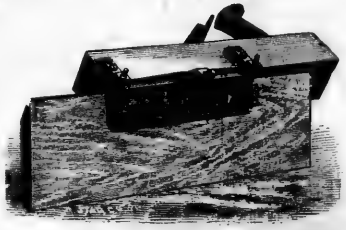
# LANGDON ADJUSTABLE MITRE BOX



THE NEW LANGDON MITRE BOX

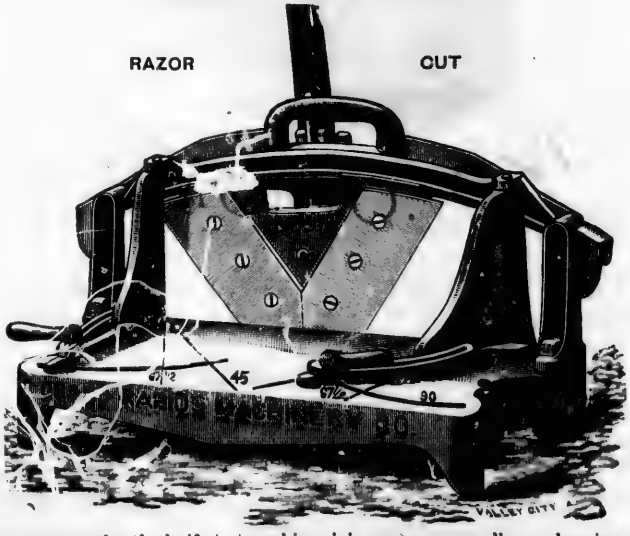
No. **17**—With Saw for Wood, 18 x 4 ..... each $13.00
" **18**— " " 20 x 4 ..... " 14.00
" **19**— " " 22 x 4 ..... " 14.80

## ADJUSTABLE JOINTER GAUGE



Adjustable for squaring or to any bevel desired, attach with the depression in centre of the wing opposite the cutting edge of the plane iron ..... each 2.55

## IMPROVED UNIVERSAL TRIMMER




Circular ways for the knife to travel in, giving a draw as well as a shearing cut.

No. **8**—Cuts 4½ in. wide and 8 in. long, weight 50 lbs. ..... each 44.80

# HACK SAWS

## P.S. STUB'S HACK SAWS



Wrought Iron Frame.

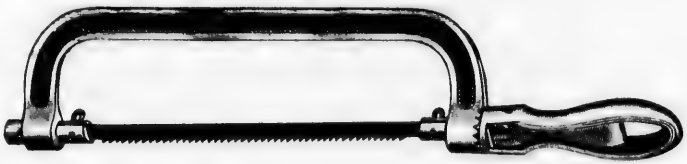
| Size | 5 | 6 | 7 | 8 | 9 | 10 | 12 inch. |
|---|---|---|---|---|---|---|---|
| Each | $1.40 | 1.65 | 1.85 | 2.10 | 2.40 | 2.60 | 3.05 |

## GRIFFIN HACK SAWS




Malleable Iron Frame.

| Size | 8 | 9 | 10 | 12 inch. |
|---|---|---|---|---|
| No. **30**—Japanned Frame, with 12 blades ..... per doz. | $18.00 | 19.15 | 20.25 | 22.50 |



No. **31**—Japanned Frame, with 12 blades, 8 inch ..... per doz. $22.50
" **35**—Nickel-Plated " " 12 " 8 " ..... " 30.40



No. **3**—Coppered Steel Frame, with one blade, 9 inch ..... per doz. 5.00

## THOMPSON'S HACK SAWS



Extension Frame.

No. **40**—Nickeled Steel Frame, extending 8 to 12 inches, with one blade ..... per doz. 18.00

# HACK SAWS

## THE "UNIVERSAL" ADJUSTABLE SAW FRAME



No. **42**—Adjustable Frame, without Blades ..... per doz. $17.15

## RAILROAD TRACK HACK SAW FRAME



No. **2**—Adjustable Frame, with two Handles, without Blades ..... each 3.35

This Frame has been designed for use in cutting electric railway rails, iron girders, beams, etc. It is made of steel, and is very strong. It is 7½ inches deep and adjustable for saws 10 to 14 inches long.

## HACK SAW BLADES



| Size | | **5** | **6** | **7** | **8** | **9** | **10** | **12** inch. |
|---|---|---|---|---|---|---|---|---|
| **Stubs** | per doz. | $1.05 | 1.85 | 2.35 | 2.85 | 3.25 | 3.75 | 4.65 |
| **Griffin** | per gross | .... | .... | .... | 11.55 | 12.40 | 13.20 | 14.60 |
| **Thompson** | " | .... | 9.25 | 10.00 | 11.00 | 11.80 | 12.60 | 15.25 |
| **Star** | " | .... | .... | .... | 13.20 | 14.10 | 17.15 | 21.15 |

The Stubs Hack Saw Blades are steel, tempered, 12 teeth to the inch. The Griffin and Thompson are flexible back, hardened teeth—**REGULAR** 14 teeth, and **FINE** 23 teeth to the inch. The Star are full hardened—**REGULAR** 14 teeth, **FINE** 23 teeth to the inch. Regular teeth supplied unless otherwise ordered.

## "UNIVERSAL" HACK SAW BLADES

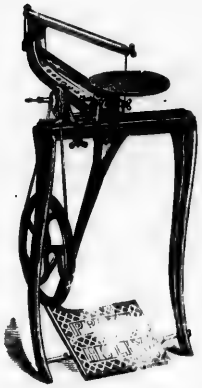


The illustration on the left will point out the fact that every tooth is "set" either narrower or wider than its predecessor, allowing the Saw to cut more smoothly, faster, and last longer than saws of the ordinary set.

| Size | **8** | **9** | **10** | **12** | **14** inch. |
|---|---|---|---|---|---|
| Per gross | $11.70 | 12.60 | 15.30 | 18.90 | 22.50 |

The 14 inch Saws are ⅜ inch wide, 16 teeth; 12 inch, 5/16 inch wide, 13 teeth; others, ¼ inch wide, 16 teeth. All are 24 gauge.

# SCROLL SAWS AND LATHES



PRIZE HOLLY SAW, No. 1



PRIZE DEMAS SAW AND LATHE, No. 10

No. **1**—Prize Holly Scroll Saw complete, with Polished Tilting Table, Emery Wheel, Power Drill, 12 Saw Blades, 1 Drill Point and 12 Designs.....each $4.50

" **10**—Prize Demas Saw and Lathe complete, with Polished Tilting Table, Emery Wheel, Power Drill, 12 Saw Blades, 3 Drill Points, 30 Patterns and 5 Turning Tools.....each 12.00

Saw Clamps for Prize Holly and Prize Demas Saws.....per pair 0.35

## NEW ROGERS' SCROLL SAW




NEW ROGERS' SAW, Nos. 1 and 2

**No. 1**

Consists of Scroll Saw, with Japanned Tilting Table, Iron Balance Wheel instead of Emery (as per cut), Power Drill, Pratt's Rubber Positive Blower, 12 Saw Blades, Wrench, Sheet of Designs and 3 Drill Points. Each machine is set up and run and carefully inspected before leaving the works. They are shipped in close boxes. Weight, boxed, 42 lbs.

No. **1**—Rogers' Saw.....each $6.00

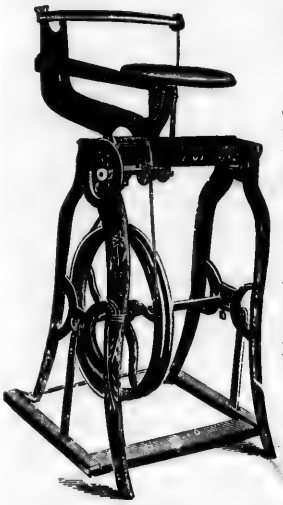
**No. 2**

Consists of Scroll Saw with Nickel-Plated Tilting Table, Emery Wheel, Power Drill, Pratt's Rubber Positive Blower, 12 Saw Blades, Wrench, Sheet of Designs, and 3 Drill Points. Each machine is set up and run and carefully inspected before leaving the works. It is then taken down and shipped in close boxes. Weight, boxed, 42 lbs.

No. **2**—Rogers' Saw.....each $7.00

**Saw Clamps**, for Rogers', Goodell or Companion Saws.....per pair 0.40

# IMPROVED DEMAS SAW, NO. 5



NO. 5 DEMAS

Height of Saw Table from floor, 43 inches; height to top of Bed, 36 inches; diameter of Drive Wheel, 21 inches; weight of Drive Wheel, 46 lbs; weight of machine, 110 lbs. A plank 2½ inches thick and 24 inches long or wide can pass under arm and back of Saw Blade.

### THE BUZZ SAW AND MOULDING ATTACHMENTS

(For Prices see page 199.)

May be propelled by the same treadle and wheel power, as the Scroll Saw attachment shown in cut and can be easily removed.

No. 5—Demas Saw.....each $19.80

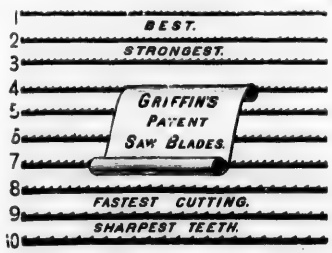
## HAND BRACKET SETS



No. 2

These sets are packed in paper boxes, and embrace a Spring Steel Saw Frame, polished and nickel-plated, 5 x 12 inches, having patent Clamps for holding the Saw Blades, rosewood handle. Three sheet designs, embracing a great variety of fancy and useful articles; twelve Saw Blades, one Awl, one sheet of Impression Paper, and full directions for using the Saw.

No. 2.....per doz. $18.75




## SAW BLADES

| Nos. | 00 to 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|
| Griffin.....per gross | $1.15 | 1.25 | 1.35 | 1.45 | 1.60 |
| Boker's..... " " | 0.90 | 1.00 | 1.10 | 1.20 | 1.25 |

One gross in a package.

### FOR DEMAS SAW, NO. 5

7¼ inches long.

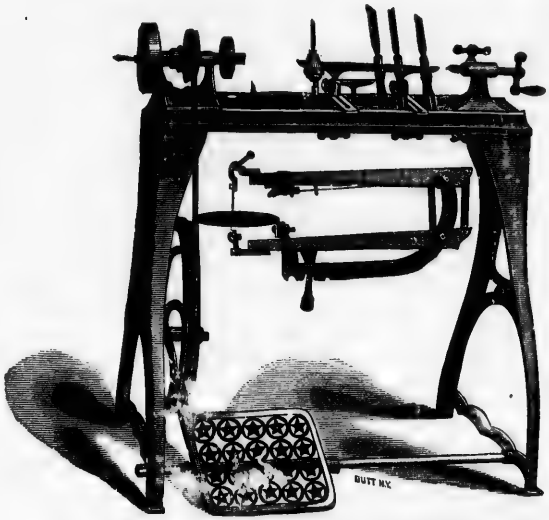
| No. | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| Size | 1/16 | 3/32 | 1/8 | 5/32 | 7/32 | 1/4 |
| Per dozen | $1.25 | 1.25 | 2.55 | 2.55 | 2.55 | 2.55 |

## MANUAL AND PATTERNS

This is a book of 87 full-size Patterns. It also contains full instructions in Fret Sawing, giving descriptions of all the woods and their uses; it also has a treatise on gluing, shellacing, polishing, sand-papering, etc.

Price of Manual and Patterns.....each $0.75

# GOODELL LATHE AND SAW ATTACHMENT



This Lathe is provided with a Long and Short Tool Rest, 5 Turning Tools, one $4\frac{1}{2} \times \frac{7}{8}$ Emery Wheel, Wrench and 6 Drill Points. The swing of Lathe is 5 inches, length of bed 24 inches, distance between centres $13\frac{1}{2}$ inches.

The Lathe Head is provided with a 2 inch Face Plate, a Spur and Screw Centres, Drill Chuck suitable for Drills to $\frac{1}{4}$ inch.

### THE SCROLL SAWING ATTACHMENT

As seen in the cut, is secured to the Lathe Bed by one bolt and can be easily attached or removed.

Finely finished, Planed and Polished Parts Nickel-Plated.

No. **7**—Price of Lathe and Lathe Tools only..... $17.00

No. **8**—Price of Lathe and Lathe Tools, with Scroll Saw Attachment ... 20.40

In ordering please state if Lathe only or Lathe with Scroll Saw Attachment is wanted.

## COMPANION LATHE AND SAW ATTACHMENT

This Companion Lathe and Scroll Sawing Attachment was specially designed for the *Youths' Companion*.

It is similar to the "Goodell," only the polished parts are not plated. The Lathe Bed is 24 inches long, $13\frac{1}{2}$ inches between centres, 5 inch Swing supplied with 3 Turning Tools, Emery Wheel, Screw Driver, Wrench and 6 Drill Points.

The Scroll Sawing Attachment is secured to the Lathe Bed by one bolt and can be easily attached or removed.

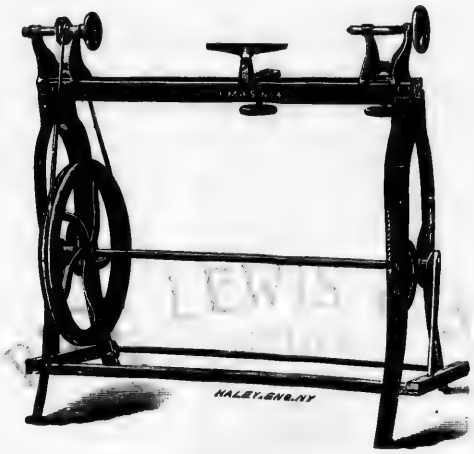
No. **11**—Price of Lathe and Tools only ..... $11.90

No. **13**—Price of Lathe, Tools and Scroll Saw Attachment..... 14.50

In ordering please state if Lathe only or Scroll Saw Attachment is wanted.



# DEMAS LATHE NO. 4




**No 4 DEMAS LATHE**

Length of Bed 42 inches, with Planed Ways, height from floor 34 inches, swing 5 inches.
Distance between centres 30 inches, Adjustable Lathe Rest and Tail Block, weight 130 lbs.

| | | |
|---|---|---|
| No. 4—Demas Turning Lathe, without Tools | each | $24.75 |
| Scroll Saw Attachment as with No. 5 Demas Saw to fit No. 4 Lathe | " | 8.25 |

## DOVETAIL, BUZZ SAW AND MOULDING ATTACHMENTS

For Demas No. 4 Lathe or Demas No. 5 Saw.







| Dovetailing Attachment, suitable for No. 4 Lathe only. | Buzz Saw Attachment, with 6 inch Saw. | Moulding Attachment, suitable for No. 4 Lathe or No. 5 Saw. |
|---|---|---|
| Each, with 4 Saws ..... $16.50 | For No. 4 Lathe ..... each $ 8.25 | Each (no knives) ..... $16.50 |
| | " " 5 Saw ..... " 11.55 | Moulding Knives, per set 3.30 |

In ordering Buzz and Dovetailing Attachment separately, state name of your machine and if it has a Lathe Attachment.

# CIRCULAR SAWS

## SILVER STEEL

Patent Machine Ground, of Extra Quality and Superior Workmanship.

| Diameter. Inches. | Gauge. | Size of Hole. Inches. | Price Each. | Each Gauge Extra. | Diameter. Inches. | Gauge. | Size of Hole. Inches. | Price Each. | Each Gauge Extra. |
|---|---|---|---|---|---|---|---|---|---|
| 4 | 19 | ½ | $0.75 | $0.06 | 36 | 9 | 1½ | $21.00 | $1.50 |
| 5 | 19 | ½ | 1.00 | 0.08 | 38 | 8 | 1½ | 24.20 | 1.75 |
| 6 | 18 | ½ | 1.15 | 0.10 | 40 | 8 | 1½ | 29.40 | 2.25 |
| 7 | 18 | ½ | 1.40 | 0.12 | 42 | 8 | 1½ | 34.65 | 2.75 |
| 8 | 17 | ½ | 1.68 | 0.14 | 44 | 8 | 1½ | 42.00 | 3.20 |
| 9 | 16 | 1 | 1.95 | 0.16 | 46 | 8 | 1½ | 49.25 | 3.75 |
| 10 | 15 | 1 | 2.25 | 0.18 | 48 | 7 | 2 | 57.75 | 4.50 |
| 12 | 15 | 1 | 2.85 | 0.20 | 50 | 7 | 2 | 65.65 | 4.75 |
| 14 | 14 | 1 | 3.50 | 0.24 | 52 | 6 | 2 | 76.00 | 6.30 |
| 16 | 14 | 1½ | 4.40 | 0.30 | 54 | 6 | 2 | 89.75 | 7.50 |
| 18 | 13 | 1½ | 5.30 | 0.45 | 56 | 6 | 2 | 107.50 | 9.00 |
| 20 | 13 | 1½ | 6.30 | 0.48 | 58 | 6 | 2 | 126.50 | 10.00 |
| 22 | 12 | 1½ | 7.40 | 0.52 | 60 | 6 | 2 | 130.00 | 12.00 |
| 24 | 11 | 1½ | 8.60 | 0.60 | 62 | 6 | 2 | 162.75 | 13.50 |
| 26 | 11 | 1½ | 9.90 | 0.70 | 64 | 6 | 2½ | 189.00 | 15.75 |
| 28 | 10 | 1½ | 12.00 | 0.80 | 66 | 6 | 2½ | 200.00 | 18.00 |
| 30 | 10 | 1½ | 14.00 | 0.90 | 68 | 6 | 2½ | 226.00 | 20.00 |
| 32 | 10 | 1½ | 16.50 | 1.00 | 70 | 6 | 2½ | 252.00 | 22.50 |
| 34 | 9 | 1½ | 18.70 | 1.20 | 72 | 6 | 2½ | 284.00 | 25.00 |

## PERIN'S FRENCH BAND SAW BLADES

SOLE AGENTS




FOR CANADA

These Blades are joined, set and filed, ready for use, and stamped with M. Perin's name and Trade Mark. They are highly finished, even in temper, and the backs rounded and polished.

| Length. | Width in Inches. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | ⅛ 3/16 ¼ | ⅜ | ½ | ⅝ | ¾ | ⅞ | 1 | 1¼ | 1½ | 2 |
| 17 feet | $3.25 | $3.25 | $3.60 | $3.90 | $4.35 | $4.85 | $5.20 | $6.30 | $7.15 | .... |
| 17 " 10 in | 3.40 | 3.40 | 3.75 | 4.15 | 4.60 | 5.05 | 5.40 | 6.60 | 7.45 | .... |
| 18 " 8 in | 3.55 | 3.55 | 4.00 | 4.40 | 4.75 | 5.30 | 5.65 | 6.85 | 7.80 | .... |
| 20 " 6 in | 3.90 | 3.90 | 4.30 | 4.70 | 5.15 | 5.75 | 6.15 | 7.45 | 8.45 | 12.30 |

## BAND SAW BLADES SET AND FILED, BUT NOT JOINED

| Size | ⅛ 3/16 ¼ 5/16 ⅜ | ½ | ⅝ | ¾ | ⅞ | 1 | 1¼ | inch. |
|---|---|---|---|---|---|---|---|---|
| Per 100 feet | $15.40 | 17.50 | 19.00 | 21.70 | 24.50 | 28.00 | 33.50 | |

### BAND RE-SAWS

| Size | 2 | 2¼ | 2½ | 3 | inch. |
|---|---|---|---|---|---|
| Per 100 feet | .... | .... | .... | .... | |

Band Saw Blades, ⅛ inch are 20 gauge; 3/16 to 2 inch, 21 gauge; Re-Saw Blades, 18 gauge, with teeth 1⅛ inch apart.

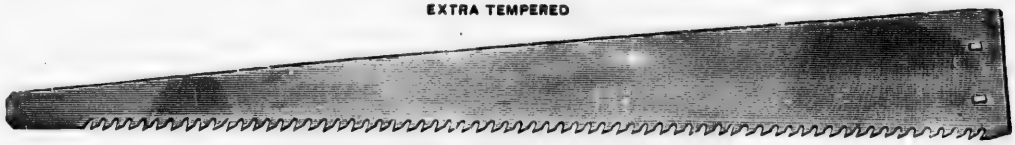
## SILVER SOLDER

Silver Solder, rolled thin, in ounce rolls.....per ounce $1.50

The successful brazing of Band Saws largely depends on the Solder used. We keep constantly in stock special Silver Solder that has proven to be the best adapted for brazing tempered steel.

# PIT, WHIP AND ICE SAWS

EXTRA TEMPERED



## PIT SAWS

Complete with Tiller and Box.

| Length | 5 | 5½ | 6 | 6½ | 7 | 7½ | 8 feet. |
|---|---|---|---|---|---|---|---|
| 10½ inch Butt ..... each | $6.00 | 6.40 | 6.80 | 7.20 | 7.60 | 8.00 | 8.50 |

## WHIP SAWS

Complete with Tiller and Box.

| Length | 5 | 5½ | 6 | 6½ | 7 | 7½ | 8 feet. |
|---|---|---|---|---|---|---|---|
| 6 inch Butt, Tapering to 3 inches at Point ..... each | $4.00 | 4.50 | 5.00 | 5.50 | 6.00 | 6.50 | 7.00 |
| 7 " " " 3 " " " | 4.20 | 4.70 | 5.20 | 5.70 | 6.20 | 6.70 | 7.20 |
| 8 " " " 4 " " " | 4.40 | 4.90 | 5.40 | 5.90 | 6.40 | 6.90 | 7.40 |

## SPECIAL KLONDIKE WHIP SAWS

Complete with Tiller and Box.

| Length | 6 | 6½ feet. |
|---|---|---|
| 8 inch Butt, Tapering to 4 inches at Point ..... each | $5.40 | 5.90 |

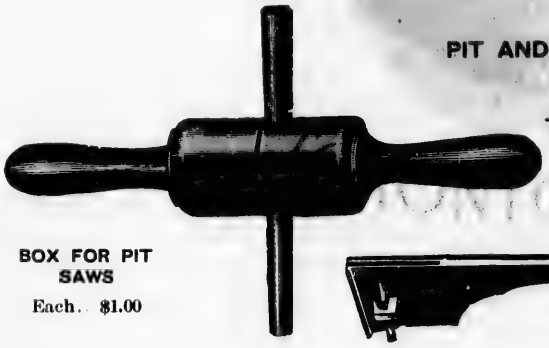
## EXTRA CAST STEEL ICE SAWS



With Tiller Handle.

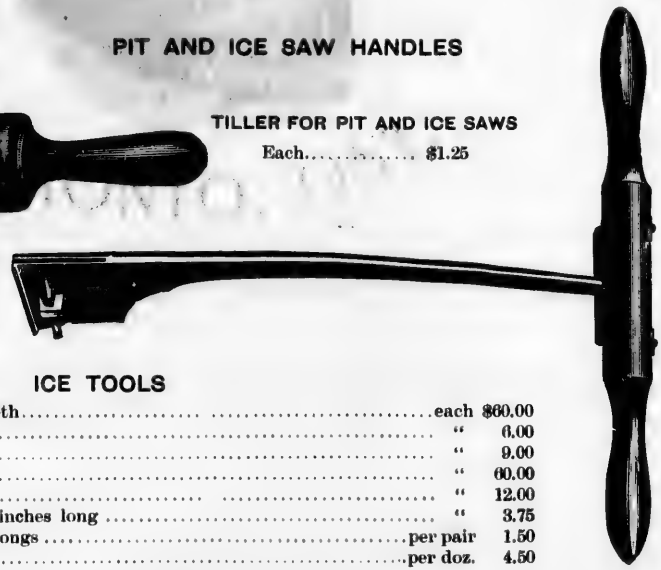
| | | |
|---|---|---|
| 7 inch Butt, Tapering to 5 inches at Point, 12 and 13G, Set and Sharpened, without Handle ..... | per foot | $1.00 |
| 8 " " " 6 " " " 12 " 13G " " " " " " ..... | " | 1.05 |

## PIT AND ICE SAW HANDLES



TILLER FOR PIT AND ICE SAWS

Each..... $1.25



BOX FOR PIT SAWS

Each.. $1.00

## ICE TOOLS

| | | |
|---|---|---|
| Ice Plows, 12 inch, with Cast Steel Teeth ..... | each | $60.00 |
| Stationary Guides for Plow, extra ..... | " | 6.00 |
| Swing Guides, " " ..... | " | 9.00 |
| One Horse Markers ..... | " | 60.00 |
| One Horse Scrapers ..... | " | 12.00 |
| Two Prong Splitting Chisels, 4 feet 6 inches long ..... | " | 3.75 |
| 24 inch, Iron Handled, Steel Pointed Tongs ..... | per pair | 1.50 |
| 5 foot Pike Poles ..... | per doz. | 4.50 |

# CROSS-CUT SAWS

## LANCE TOOTH




**The Queen**, ground extra thin on the back, set and filed ..... .....per foot $1.00




**The Victor**, ground thin on the back, set and filed .....per foot 0.75

# CROSS-CUT SAWS

## LANCE TOOTH




### SHURLY & DIETRICH

| | | |
|---|---|---|
| No. **0**—Racer, ground extra thin on the back, set and filed | per foot | $1.00 |
| **Premier**, ground thin on the back, set and filed | " | 0.95 |
| No. **1**—Lance Tooth, Maple Leaf, ground thin on the back, set and filed | " | 0.95 |
| " **3**— " " ground thin on the back | " | 0.60 |

## THE NARROW RACER



### NARROW RACER, FOR SAWING LOGS OR TREES

| | | |
|---|---|---|
| **Narrow Racer**, Silver Steel, set and filed | per foot | $0.75 |

# CROSS-CUT SAWS

## IMPROVED CHAMPION




| | | |
|---|---|---|
| Improved Champion, Silver Steel, set and filed | per foot | $0.90 |
| " " Cast Steel " " | " | 0.55 |

## TUTTLE TOOTH




| | | |
|---|---|---|
| Tuttle Tooth, Silver Steel, set and filed | per foot | $0.90 |
| " " Cast Steel, " " | " | 0.55 |
| Disston's Tuttle Tooth, four gauges thinner on back than on teeth | " | 0.60 |
| " " " two " " " " " " | " | 0.54 |

Toothed to the end for Pacific Coast Trade.

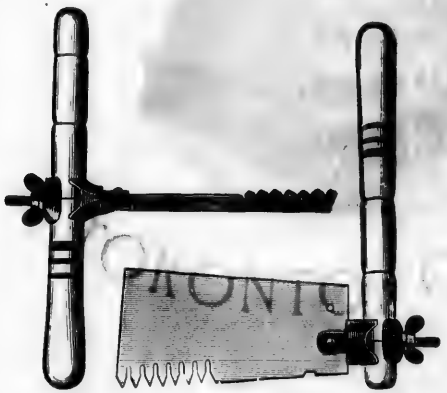
# CROSS-CUT SAWS AND HANDLES



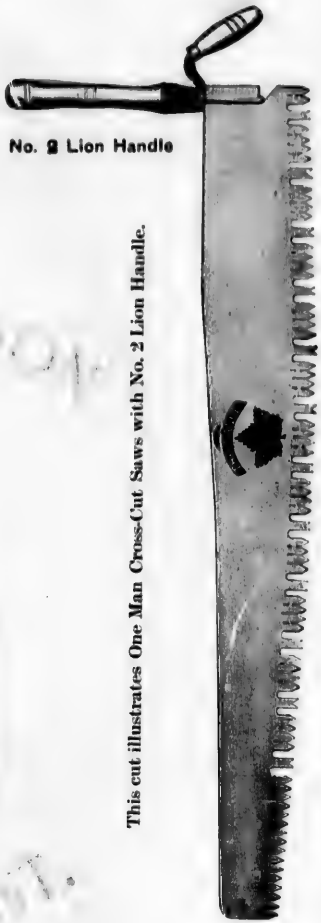
No. 5



BOYNTON



No. 6



No. 2 Lion Handle

This cut illustrates One Man Cross-Cut Saws with No. 2 Lion Handle.

## CROSS-CUT SAW HANDLES

| | | |
|---|---|---|
| No. 1—Boynton | per dozen pairs | $2.25 |
| " 3—Malleable Iron Loop (similar to No. 1) | " " | 2.25 |
| " 5— " " " | " " | 2.25 |
| " 6—Adjustable | " " | 2.25 |
| " 2—Lion, for One Man Saws | " " | 6.50 |
| Handles Painted Red | per dozen pairs extra, net | 0.20 |

## ONE MAN CROSS-CUT SAWS

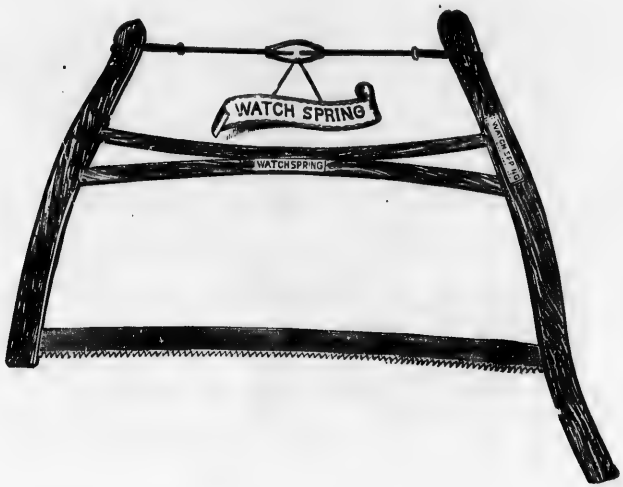
### LANCE TOOTH

Sold by the foot, price without Handles, Set and Filed ready for use.

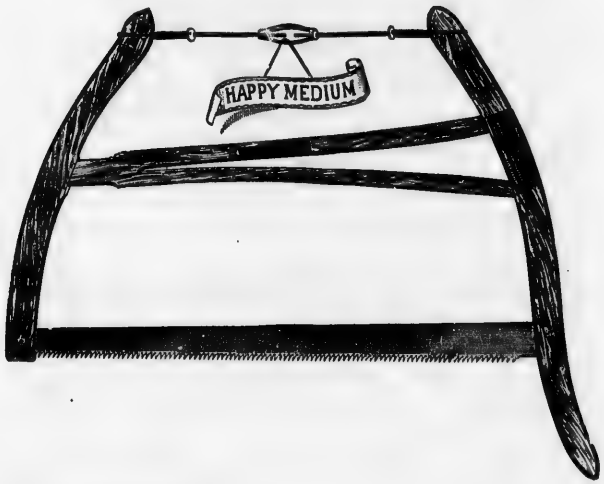
| | | |
|---|---|---|
| No. 1—Maple Leaf | per foot | $0.95 |
| " 3—Lance Tooth | " | 0.60 |

# WOOD SAWS

## FRAMED




**Watch Spring**, Painted Frames, Blued Spring Steel Blades ..... .....per doz. $5.50

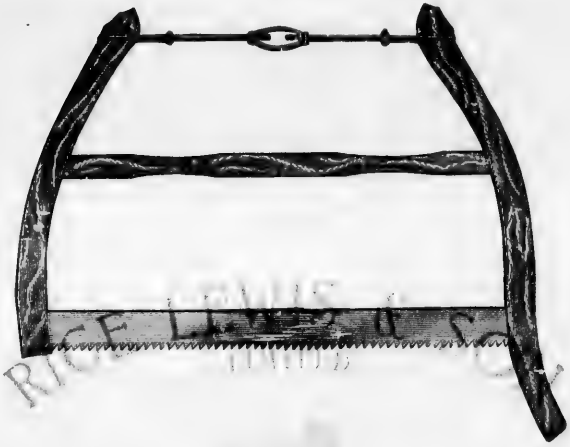



**Happy Medium**, Painted Frames, Tapered Blades ..... .....per doz. 5.80

Half-dozen in a box.

# WOOD SAWS

## FRAMED



| | | |
|---|---|---|
| No. 5—Plain Frames, 30 × 2 inch Blade | per doz. | $4.15 |
| " 7—Painted " 30 × 2 " " | " " | 4.50 |
| " 5—Frames only, Plain | " " | 1.90 |
| " 7— " " Painted | " " | 2.25 |

## SAW BUCKS

| | | |
|---|---|---|
| Folding Saw Bucks, Hardwood, Plain | per doz. | 4.15 |
| " " " " Painted | " " | 6.00 |

## SAW RODS



| | | |
|---|---|---|
| No. 11—21 inches long | per doz. | 1.00 |

## SAW SCREWS

### WROUGHT BRASS



No. 1C



No. 2C



No. 4C



No. 1S

Full size cuts.

| Nos. | 1C | 2C | 4C | 1S | 2S |
|---|---|---|---|---|---|
| Per gross | $5.15 | 6.00 | 10.35 | 4.50 | 5.00 |

## STEEL SAW SCREWS—BRIGHT

| | | |
|---|---|---|
| No. 3—Raised Round Heads, style similar to No. 2 C | per gross | 8.00 |

# HAND, PANEL AND RIP SAWS



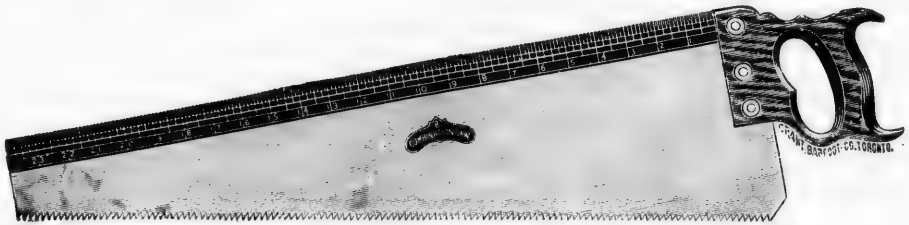

**A. R. PERRY & BRO. No. 10**

| Size | | 16 | 18 | 20 | 22 | 24 | 26 inch. |
|---|---|---|---|---|---|---|---|
| No. 10—Cast Steel Hand Saws | per doz. | $5.00 | 6.00 | 6.10 | 6.20 | 6.40 | 6.50 |
| " 10— " Rip Saws | " | ... | .... | .... | .... | .... | 6.50 |




**ENTERPRISE. No. 25**

No. **25**—Cast Steel Hand or Rip Saws, 26 inch ..... per doz. **$10.25**




**COMBINATION. No. 12**

No. **12**—Cast Steel Hand Saws, 26 inch..... per doz. **$11.50**




**BUILDERS FAVORITE. No. 50**

No. **50**—Silver Steel, Apple Wood Handle, Raised Screws, 26 inch..... per doz. **$21.50**

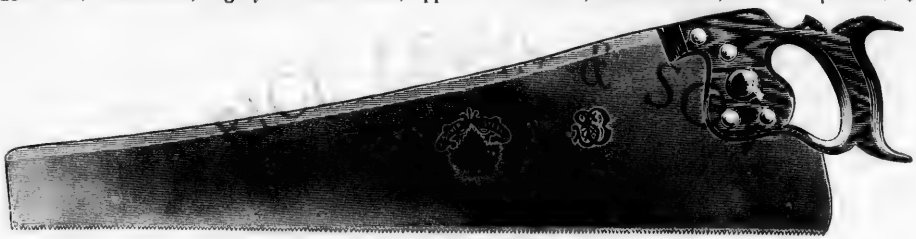
Quarter dozen in a package.

# HAND, PANEL AND RIP SAWS



**SHURLY & DIETRICH. No. 45, "D.S."**

No. **45**—D. S., Silver Steel, Highly Finished Blade, Apple Wood Handle, Raised Screws, 26 inch....per doz. $27.50



**SHURLY & DIETRICH. No. 2**

Silver Steel, Satin Finished Blade, Apple Wood Handle, Raised Screws.

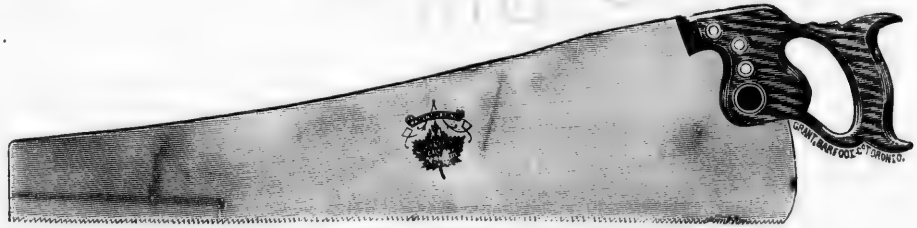
| Length | 16 | 18 | 20 | 22 | 24 | 26 | 28 inch. |
|---|---|---|---|---|---|---|---|
| No. 2—Hand Saws.....per doz. | $15.00 | 17.00 | 19.00 | 21.00 | 23.00 | 25.00 | ..... |
| " 2—Rip " ..... " | ..... | ..... | ..... | ..... | ..... | 25.00 | 28.00 |



**SHURLY & DIETRICH. No. 4½**

Spring Steel, Warranted. Beech Handle.

| Length | 16 | 18 | 20 | 22 | 24 | 26 | 28 inch. |
|---|---|---|---|---|---|---|---|
| No. 4½—Hand Saws.....per doz. | $9.50 | 12.00 | 14.50 | 16.00 | 18.00 | 20.00 | ..... |
| " 4½—Rip " ..... " | ..... | ..... | ..... | ..... | ..... | 20.00 | 22.50 |




**SHURLY & DIETRICH. No. 4**

Spring Steel, Warranted. Beech Handle.

| Length | 18 | 20 | 22 | 24 | 26 | 28 inch. |
|---|---|---|---|---|---|---|
| No. 4—Hand Saws.....per doz. | $11.50 | 14.00 | 15.50 | 17.50 | 18.00 | ..... |
| " 4—Rip " ..... " | ..... | ..... | ..... | ..... | 18.00 | 21.00 |
| " 5—Hand or Rip Saws ..... " | ..... | ..... | ..... | ..... | 18.00 | 21.00 |

The No. 5 Saw has straight back, in other particulars the same as No. 4.

One-third dozen in a box.

# HAND, PANEL AND RIP SAWS



### VICTORIA

Silver Steel, Highly Finished Blade, Carved Beech Handle, Raised Screws.

| | | |
|---|---|---|
| **Victoria** Hand Saws, length 26 inches | per doz. | $17.50 |
| " Rip " " 26 " | " | 17.50 |



## HAND AND PANEL SAWS

### DISSTON'S

| Length | 16 | 18 | 20 | 22 | 24 | 26 | inch. |
|---|---|---|---|---|---|---|---|
| No. **9**—Apple Handle, Polished Edge, per doz. | ..... | $17.00 | 19.00 | ..... | 23.00 | 24.00 | |
| " **D8**— " " Hollow Back " | ..... | 16.00 | 17.50 | 19.50 | 21.00 | 22.00 | |
| " **8**— " " " " | $13.50 | 14.50 | 16.50 | 18.50 | 20.00 | 21.00 | |
| " **76**— " " " " | ..... | 14.00 | 16.00 | 18.00 | 19.00 | 20.00 | |
| " **7**—Beech Handle " (Disston) " | $13.00 | 14.00 | 16.00 | 18.00 | 19.00 | 20.00 | |
| " **107**— " " (Keystone) " | $11.00 | 12.25 | 13.50 | 15.00 | 16.00 | 17.00 | |

## RIP SAWS

### DISSTON'S

| Nos. | 9 | D8 | 8 | 76 | 7 | 107 |
|---|---|---|---|---|---|---|
| 28 inch, 4½ to 6 points, per doz. | $28.00 | 25.00 | 24.00 | 23.50 | 23.50 | 20.00 |
| 26 inch, 4½ to 6 points, " | ..... | 22.00 | ..... | 20.00 | 20.00 | 17.00 |

## BACK OR TENON SAWS

### DISSTON'S

| Length | 8 | 10 | 12 | inch. |
|---|---|---|---|---|
| No. **4**—Apple Handle, Blued Back, per doz. | $13.00 | 14.00 | 16.00 | |
| " **77**—Mechanic's Own, Bright Back, " | ..... | 18.00 | 20.00 | |

## BACK OR TENON SAWS

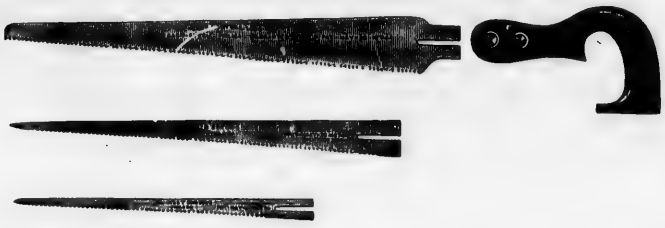


### SHURLY & DIETRICH

| Length | 8 | 10 | 12 | 14 | inch. |
|---|---|---|---|---|---|
| No. **2**—Extra Refined Spring Steel, Polished Back, Etched, Beech Handle... | $13.50 | 15.50 | 17.50 | 19.50 | |

# COMPASS SAWS

## HENRY DISSTON & SONS' NEST OF SAWS



No. **3**—Combining one each, Keyhole, Compass, and Pruning Saw ..... per doz. sets $11.00
Extra Blades, Keyhole ..... per doz. 1.75
" " Compass ..... " 2.75
" " Pruning ..... " 4.75
Extra Handles, with Screws ..... " 1.75

Three sets in a box.



| Length | 10 | 12 | 14 | 16 inch. |
|---|---|---|---|---|
| No. **18**—Silver Steel ..... per doz. | $5.25 | 5.50 | 5.75 | 6.00 |
| " **19**—Cast Steel ..... " | 3.50 | 3.75 | 4.00 | 4.50 |
| " **20**— " " ..... " | 3.25 | 3.50 | 3.75 | 4.25 |
| " **2**—Disston's Cast Steel ..... " | .... | 4.50 | 4.75 | 5.00 |

Nos. 18 and 19 are ground thin on back.

## KEYHOLE SAW AND PAD

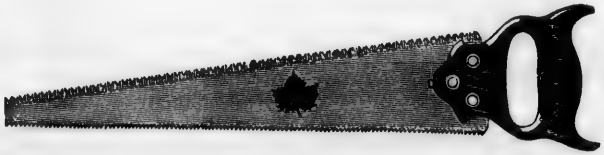


No. **5**—Keystone Saw, Iron Pad ..... per doz. $2.00

## PRUNING SAWS



No. **16**—18-inch Pruning Saws ..... per doz. 7.50



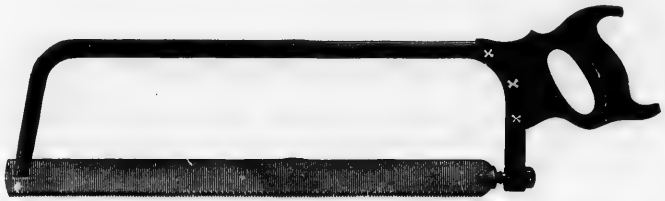
No. **17**—18-inch, Coarse Teeth on one side, Fine on the other ..... per doz. 8.00

Half-dozen in a package.

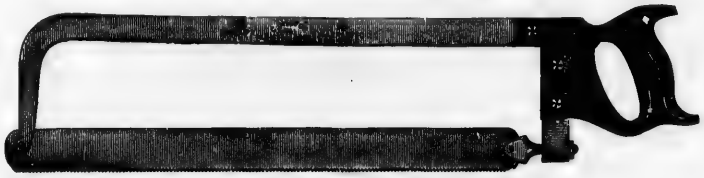
# BUTCHER SAWS



| Length | 16 | 18 | 20 | 22 | 24 | 26 inch. |
|---|---|---|---|---|---|---|
| No. 2—Shurly & Dietrich, Oval Back ..... per doz. | $16.00 | 17.33 | 18.50 | 19.60 | 20.75 | 21.85 |



| Length | 16 | 18 | 20 | 22 | 24 inch. |
|---|---|---|---|---|---|
| No. 1—Disston's, Oval Back ..... per doz. | $17.25 | 18.25 | 19.25 | 20.25 | 21.50 |



| Length | 20 | 22 inch. |
|---|---|---|
| No. 4—Disston's, Flat Back | $21.50 | 22.50 |



| Length | 20 | 22 | 24 inch. |
|---|---|---|---|
| No. 6—Disston's, Oval Back, Thumb Nut Attachment ..... per doz. | $20.00 | 21.00 | 22.00 |

One-third dozen in a box.

# BUTCHER SAWS



| Length | | 16 | 18 | 20 | 22 inch. |
|---|---|---|---|---|---|
| No. **06**—Shurly & Dietrich. Flat Back, 1¼ inch Riveted Blade | per doz. | $12.55 | 13.45 | 14.00 | 14.75 |
| " **7**—Kitchen Saw, Round Back, Riveted Blade, length 14 inches | per doz. | $8.00 | | | |

Quarter-dozen in a package.



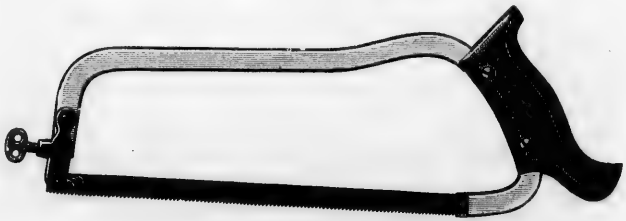
No. **115**—Boker's Knife Saw, 12 inch Blade, Varnished Handle ..... per doz. $4.75

## PORK PACKERS' SAWS



| Length | | 16 | 18 inch. |
|---|---|---|---|
| No. **04**—Silver Steel, with Patent Buckle | per doz. | $16.00 | 17.00 |

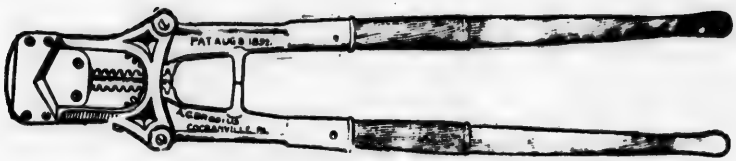
## DEHORNING SAWS



No. **0**—Beech Handle, Nickeled Frame, 10 inch .... ..... per doz. $8.25

No. 115, half-dozen in a package, others quarter-dozen.

# DEHORNING CLIPPERS



Keystone Dehorning Clippers ..... each $10.00
Complete outfit, Clippers with leader and rope, extra blades and screws ..... " 12.00

In these Clippers, the parts are made interchangeable, the Knife can be easily removed for sharpening. When in operation, they do not crush the horn. Will cut any horn instantly without twisting it off or requiring a second cut. Length of Clippers 3 ft. 8 inches, about 8 inches across the widest place. The blades will open 5 inches, 3½ inches between the sides of frame, weight 15 lbs.

## BUTCHER SAW WEBS



| Length | | 18 | 20 | 22 | 24 | 26 inch. |
|---|---|---|---|---|---|---|
| No. 32 —1 inch wide | per doz. | $5.50 | 6 00 | 6.50 | .... | .... |
| " 31½—1¼ " | " | .... | .... | 6 62 | 7.12 | 7.87 |
| " 31 —1½ " | " | .... | .... | 6.75 | 7.25 | 8.00 |

## WOOD SAW BLADES



No. 19—Common Tooth, set and filed, 30×2 inches wide ..... per doz. $6.33
" 43—Boker's " " " " " " " " ..... " 3.50
Watch Spring ..... " 6.33

## CAST-STEEL FELLOE WEBS



| Length | 12 | 14 | 16 | 18 | 20 | 22 | 24 inch. |
|---|---|---|---|---|---|---|---|
| No. 33 ..... per doz. | $3.08 | 3.58 | 4.10 | 4.60 | 5.12 | 5.63 | 6.15 |

Bevelled Backs, 12 to 18 inch, ⅜ inch wide; 14 to 24 inch, ½ inch wide; 17 to 14, gauge.

## CAST-STEEL TURNING OR CHAIR WEBS



| Length | 8 | 10 | 12 | 14 | 16 | 18 inch. |
|---|---|---|---|---|---|---|
| No. 34 ..... per doz. | $1.64 | 1.80 | 2.10 | 2.40 | 2.66 | 2.93 |

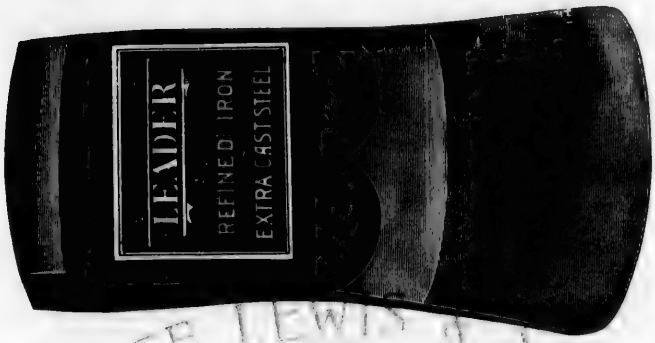
8 to 14 inch, $\frac{A}{16}$ inch wide; 10 to 16 inch, ¼ inch wide; 20 to 17, gauge.

## CAST-STEEL KEY HOLE SAW BLADES



| Length | 8 | 9 | 10 inch. |
|---|---|---|---|
| No. 35 ..... per doz. | $1.75 | 1.88 | 2.00 |

# AXES




**LEADER**

**Leader**, Single Steel, Bronze Finish.....per doz. **$7.25**
Assorted Weights, 3⅛ to 4⅛, 3⅜ to 4⅜, 4 to 4¾ lbs.




**FOREST BEAUTY**

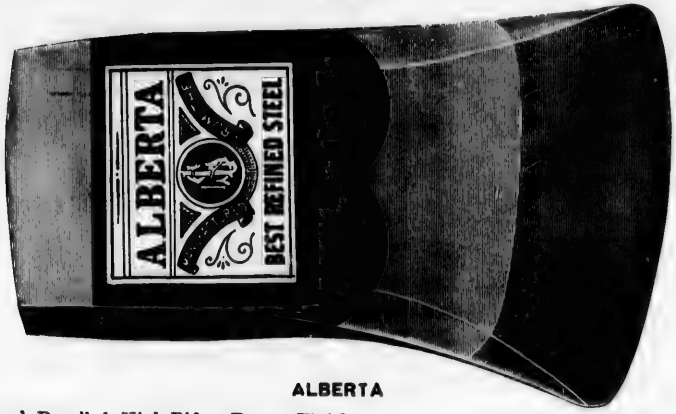
**Forest Beauty**, Single Steel, Overcoat, Bronze Finish.....per doz. **7.75**
Assorted Weights, 3 to 3⅛, 3⅜ to 4⅛, 3¾ to 4⅛, 4 to 4¾ lbs.




**TRY ME**

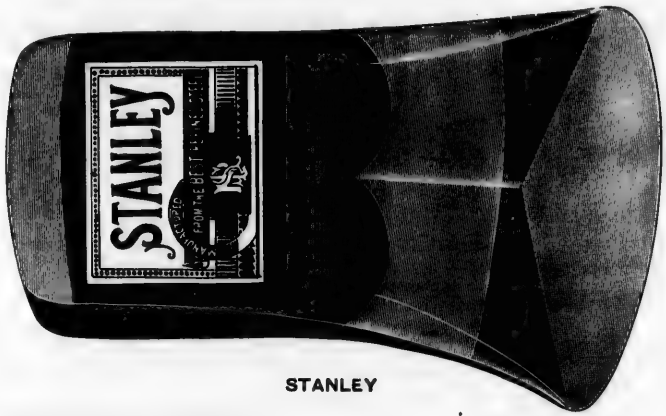
**Try Me**, Double Steel, Bronze Finish.....per doz. **9.50**
Assorted Weights, 3 to 3⅛, 3⅜ to 4⅛, 3¾ to 4⅛, 4 to 4⅜, 4¼ to 5 lbs.
One dozen in a box.

# AXES



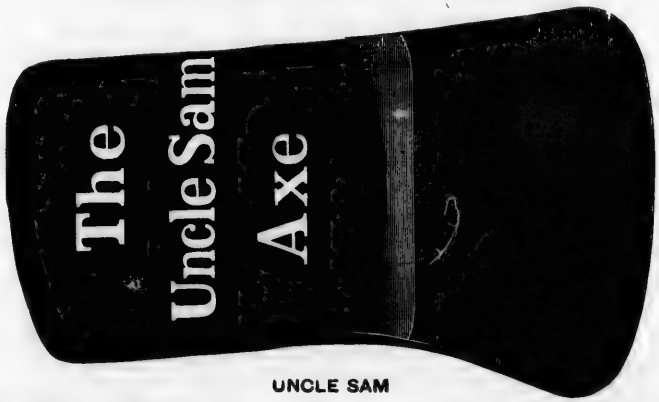

ALBERTA

**Alberta,** Double Steel, Bevelled, High Ridge, Bronze Finish ..... per doz. $10.00
Assorted Weights, 3½ to 4¼, 3¾ to 4½, 4 to 4¾, 4¼ to 5 lbs.




STANLEY

**Stanley,** Double Steel, High Ridge, Bronze Finish ..... per doz. 11.00
Assorted Weights, 3½ to 4¼, 3¾ to 4½, 4 to 4¾, 4¼ to 5 lbs.




UNCLE SAM

**Uncle Sam,** Triple Steel, Painted Green ..... per doz. 12.00
Assorted Weights, 3¾ to 4¼ lbs.
One dozen in a box.

# AXES




MODEL

**Model**, Triple Steel, Forged Bevel, Blued Finish ..... per doz. $11.50
Assorted Weights, 4 to 4¾, 4¾ to 5 lbs.




GEORGIAN BAY

**Georgian Bay**, Triple Steel, Bronze Finish ..... per doz. 13.50
Assorted Weights, 4 to 4¾, 4¾ to 5 lbs.




EMPIRE

**Empire**, Triple Steel, Full Polished ..... per doz. 13.50
Assorted Weights, 3¾ to 4¼, 4 to 4¾, 4¼ to 5 lbs.
One dozen in a box.

# AXES




**BLACK PRINCE, SCORING**

**Black Prince,** Scoring, Double Steel, Bronze Finish ..... per doz. $13.00
Assorted Weights, 4½ to 5½ lbs.




**ONTARIO PATTERN**

**Ontario Pattern,** Double Bitted Axe, Ground Thin, Special Temper, Bronze Finish ..... per doz. 18.75
Assorted Weights, 3¾ to 4½ lbs.



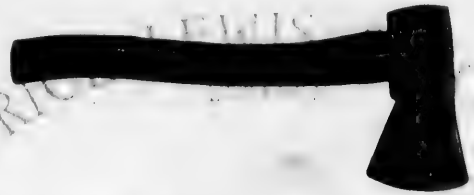

**BRITISH COLUMBIA PATTERN**

**British Columbia Pattern,** Double Bitted Axe, Inserted Steel, Bronze Finish ..... per doz. 18.75
Assorted Weights. One dozen in a box.

# HANDLED AXES



Hunters' Axes, Cast Steel, 3½ inch Cut, 16 inch Handles ..... per doz. $6.75



Hunters' Tomahawks, Cast Steel, Full Polished, 3½ inch Cut, 14 inch Handles ..... per doz. 7.75
One dozen in a box.



| | | |
|---|---|---|
| Leader, Single Steel, Bronze Finish, 36 inch Handles | per doz. | $10.25 |
| Forest Beauty, Single Steel, Bronze Finish, 36 inch Handles | " | 10.75 |
| Try Me, Double Steel, " " 36 " " | " | 12.50 |
| Monarch, Triple " " " 36 " " | " | 13.25 |

## BOYS' HANDLED AXES

Boys' Handled Axes, Cast Steel, Bronze Finish, 28 inch Handles ..... per doz. 8.25

## AXE WEDGES

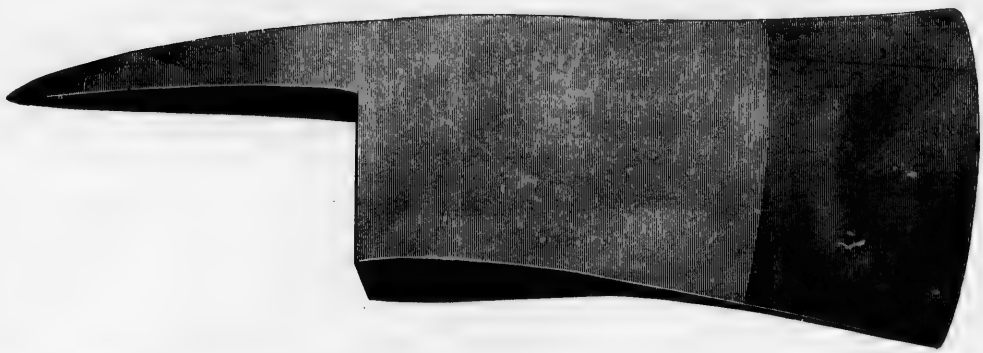


FULL SIZE

Perfection Axe Wedges, Japanned ..... per gross 4.25
One dozen in a box.

# FIREMEN'S AXES

## HANDLED



Extra Cast Steel, Finished in Red and Gold, 36 inch Handles.....each $3.75

## SHIP CARPENTERS' AXES




Extra Cast Steel Ship Carpenters' Axes .....per doz. 30.00

# BROAD AXES

## OTTAWA PATTERN




| | | | | |
|---|---|---|---|---|
| **Weight** | **6 to 7½** | **7½ to 8** | **9 to 9¼** | **9½ to 10 lbs.** |
| **Per dozen** | **$35.00** | **38.50** | **38.50** | **44.50** |

**Half-dozen in a box.**

# ADZES



CARPENTERS'




SHIP CARPENTERS'

| | | | | | |
|---|---|---|---|---|---|
| Star, Steel Poll | per doz. | $18.00 | No. 33—Extra Cast Steel, Plain | per doz. | $21.00 |
| No. 1—Extra Cast Steel, 4¼ to 4½ in. cut. | " | 21.00 | " 34— " " Lipped | " | 24.00 |

## RAILROAD ADZES

| | | |
|---|---|---|
| 5 inch Cut, Extra Heavy | per doz. | 27.00 |

# BENCH AXES

## HANDLED

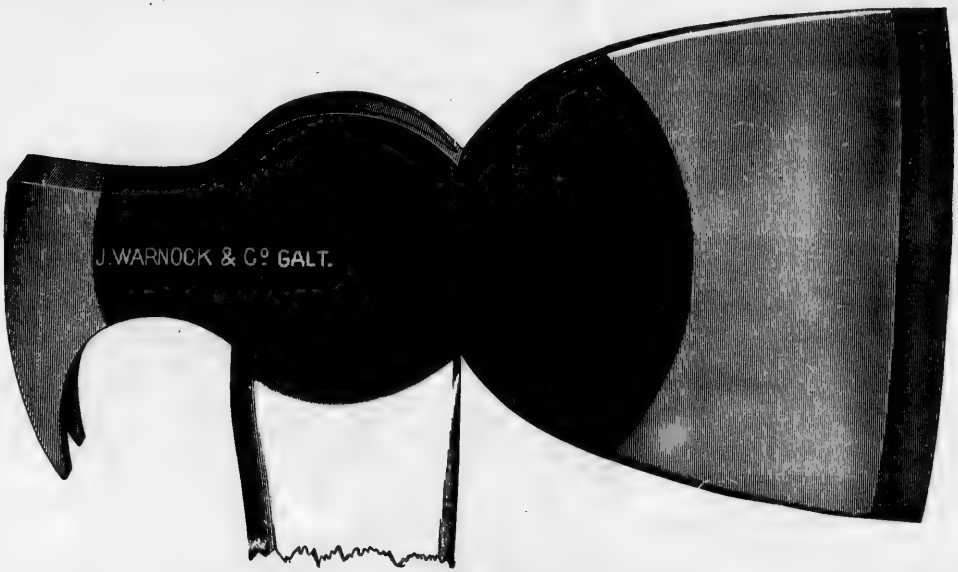



Warnock's Extra Cast Steel.

| Nos | 2 | 3 | 4 | 5 | 6 | 7 | |
|---|---|---|---|---|---|---|---|
| Cut | 4 | 5 | 5½ | 6 | 6¾ | 7½ | inch. |
| Per dozen | $12.00 | 13.00 | 14.50 | 16.00 | 18.00 | 19.50 | |

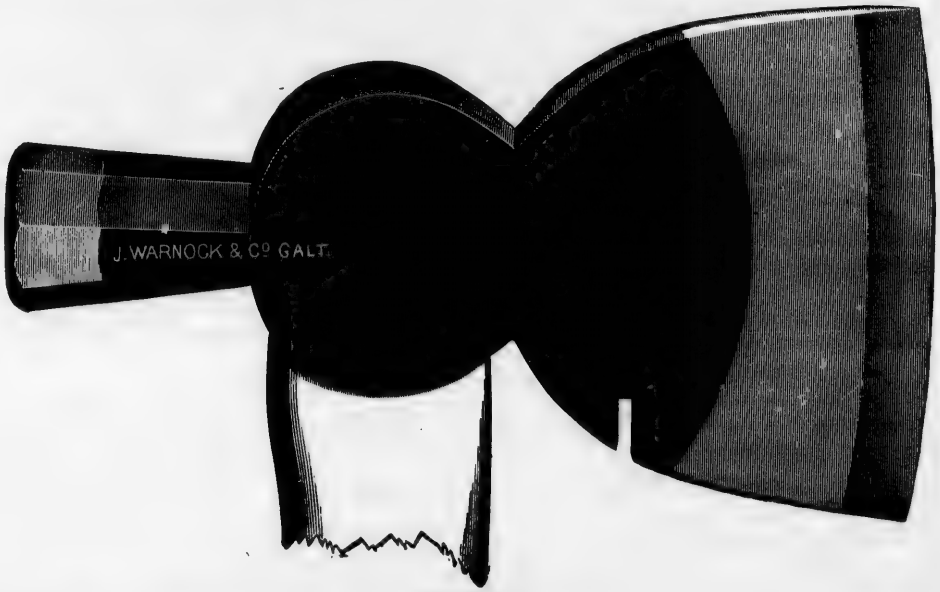
Half-dozen in a box.

# HATCHETS




**CLAW**

| | | | |
|---|---|---|---|
| No. **18**—Warnock's, Extra Cast Steel, Polished and Bronzed, 3½ inch Cut | per doz. | $10.50 |
| " **7**—Champion, Cast Steel, Polished and Bronzed, 3 inch Cut | " | 6.10 |




**SHINGLING**

| | | | |
|---|---|---|---|
| No. **17**—Warnock's, Extra Cast Steel, Polished and Bronzed, 3¼ inch Cut | per doz. | $9.50 |
| " **1**—Champion, Cast Steel, Polished and Bronzed, 3 inch Cut | " | 5.00 |
| " **2**—Cast Steel, Polished and Painted, 3⅛ inch Cut | " | 3.00 |

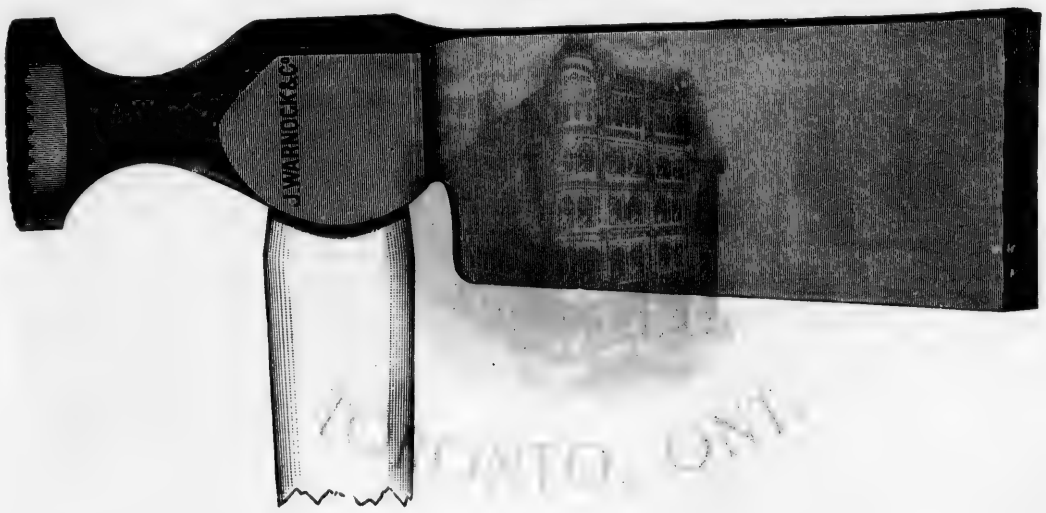
**Half-dozen in a box.**

# HATCHETS




### LATHING

No. **5**—Boston Pattern, Extra Cast Steel, Full Polished, 2 inch Cut ..... per doz. $7.15
" **6**—Underhill Pattern " " " **2** " ..... " 9.25




No. **10**

### LATHING

No. **10**—Bell Face, 1¼ inch head, Extra Cast Steel, Polished, 2¼ inch Cut ..... per doz. $9.25
" **45**—Toronto Pattern, same as No. 10 but Head ¼ inch larger, 2 inch Cut ..... " 11.40

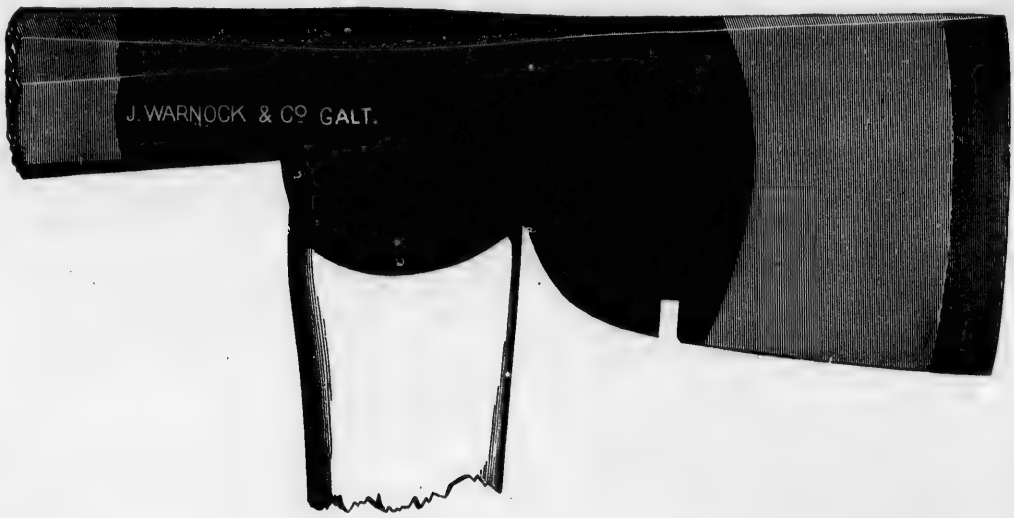
Half-dozen in a box.

# HATCHETS




## LATHING

**No. 15**—New Boston Pattern, Extra Cast Steel, Full Polished, 2 inch Cut ..... per doz. $11.40




No. 1.

## LATHING

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **No. 1**—Warnock's, Extra Cast Steel, Polished and Bronzed, | | | | | | | | 2⅜ | inch Cut | ..... | per doz. | $8.25 |
| " **2**— | " | " | " | " | " | " | | 3 | " | " | ..... | " | 9.25 |
| " **3**—Champion | | " | " | " | " | " | | 2¾ | " | " | ..... | " | 5.00 |

Half-dozen in a box.

# LUMBERING TOOLS



No. 1

No. 1—Round Bill Peavey, Handled in Split Maple ..... per doz. $17.75
" 2—Duck Bill Peavey " " " ..... " 17.95



No. 45

No. 45—"Soo" Duck Bill Peavey, Handled in Split Maple ..... per doz. 17.75
" 46— " Round " " " " ..... " 17.95

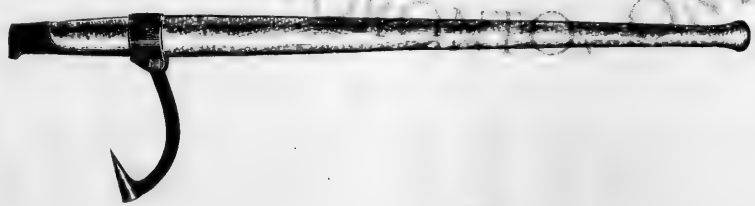
Hooks on "Soo" Peaveys and Cant Hooks drop lower than those of any other line.



No. 4

No. 4—Duck Bill Winter Cant Hooks, Handled in Split Maple ..... per doz. 17.10
" 3—Chisel " " " " " ..... " 14.85
" 44—"Soo" Duck Bill Cant Hook, " " ..... " 17.10

Hooks on "Soo" Peaveys and Cant Hooks drop lower than those of any other line.



No. 5

No. 5—Mill Cant Dog, for use in Sawmills, Yards, etc ..... per doz. 13.50



No. 6

## PIKE POLES

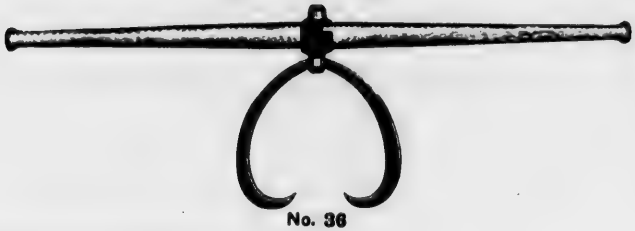
With Maple or White Ash Handles.

No. 6—Pike Poles, with Cast Steel Gaff and Solid Sockets ..... per doz. 14.40
" 32— " Sorting, " " " ..... " 15.30
" 60—Pike Pole Handles only, 12 or 13 feet ..... " 5.40
" 62—Cast Steel Gaff and Sockets for Pike Poles ..... " 8.00



No. 32

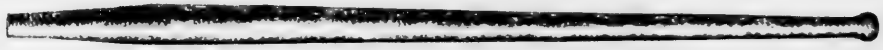
# LUMBERING TOOLS



No. 36

No. 36—Timber Grips, for Rafting, Millyard or Builders' use.....per doz. $43.20

## PEAVEY AND CANT HOOK HANDLES, MAPLE



| | | 4 | 4½ | 5 | 5½ | 6 feet. |
|---|---|---|---|---|---|---|
| Length | | | | | | |
| No. 39—Peavey Handles | per doz. | $3.25 | 3.50 | 4.00 | 4.50 | 5.00 |
| " 38—Cant Dog Handles | " | 3.25 | 3.50 | .... | .... | .... |



No. 9



No. 9½



No. 12

| | | |
|---|---|---|
| No. 9—Peavey Sockets | per doz. | $3.90 |
| " 9½— " " | " | 3.90 |
| " 12—Band and Bolt, Swedes Iron | " | 5.40 |



No. 7



No. 11

| | | |
|---|---|---|
| No. 7—Duck Bill Hook and Band | per doz. | 13.00 |
| " 8—Chisel " " | " | 10.80 |
| " 10—Duck Bill Hooks only | " | 7.60 |
| " 11—Chisel " " | " | 5.40 |

## BOOT CALKS



Nos. 0 1 2 3 4

| No. | 0 SMALL BALL | 1 MEDIUM BALL | 2 LARGE BALL | 3 SMALL HEEL | 4 LARGE HEEL |
|---|---|---|---|---|---|
| Per 1000 | $6.00 | 7.00 | 8.00 | 10.00 | 10.00 |

Medium and Small Ball and Small Heel, 500 in a box; Large Ball and Large Heel, 250.

## CALK PUNCH AND SET

Calk Punch and Set, made of Hardened Cast Steel, Polished.....per doz. $3.00

# LUMBERING TOOLS

SOREW CLEVIS



No. 22

TIMBER DOG



No. 23

CHAIN GRAB RING



No. 25

CHAIN ROUND RING



No. 26

STEEL SAW WEDGE



No. 27

| Nos. | 22 | 23 | 25 | 26 | 27 |
|---|---|---|---|---|---|
| Per dozen | $3.25 | 1.45 | 2.80 | 2.00 | 3.25 |

RICE LEWIS & SON LIMITED

## SWEDES IRON PILING HOOKS



No. 13



No. 14



No. 15



No. 16



No. 17

| Nos. | 13 | 14 | 15 | 16 | 17 |
|---|---|---|---|---|---|
| Per dozen | $27.00 | 21.60 | 12.60 | 11.90 | 9.75 |

TORONTO, ONT.

GRAB HOOK



No. 18

ROUND CHAIN HOOK



No. 19

BAR BOOM HOOK



No. 20

RING BOOM HOOK



No. 21

| Nos. | 18 | 19 | 20 | 21 |
|---|---|---|---|---|
| Per dozen | $4.00 | 4.00 | 5.40 | 6.50 |

# LUMBERING TOOLS

## OAK WHIFFLETREES



No. 33

No. **33**—Oak Whiffletrees, Ironed.....per set $3.90
" **43**— " " Eveners.....each 0.75
" **56**— " Single Trees, Ironed..... " 1.25

## OAK NECK YOKES



No. 34

No. **34**—Oak Neck Yokes, Ironed, Heavy, 3 feet 3 inches long.....each 2.70

## KNOCK DOWN CHAINS
### FOR RAFTING



No. 28

No. **28**—Knock Down Chains.....per doz. $6.75

## WHIFFLETREE, MIDDLE END



No. 24

Per doz..... $4.95

## WHIFFLETREE, IRON END



No. 24½

Per doz..... $4.15

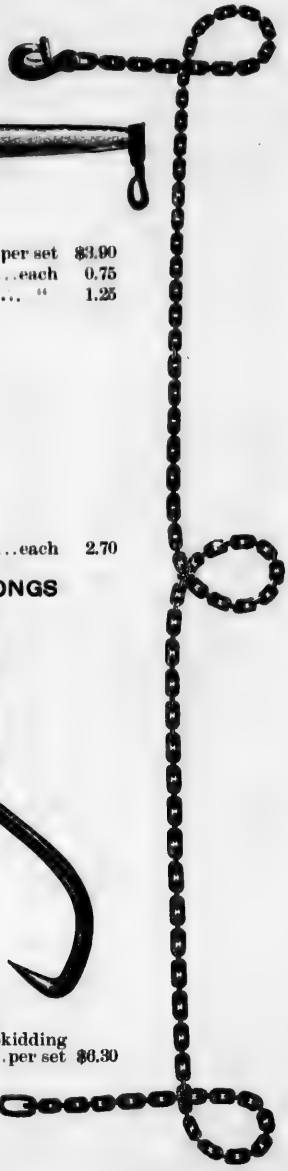
## SKIDDING TONGS



No. 35

No. **35**—Cast Steel Skidding Tongs.....per set $6.30

## BOOM CHAINS



No. 29

## BOOM CHAINS

No. **29**—Boom Chains, all sizes, furnished with all styles of Hooks, also with Toggle and Ring. When ordering Boom Chains, state length, also kind of fastener required. Logging Chains all sizes, as ordered.

# ICE TOOLS



MARKER, WITH SWING GUIDE

No. **1**—3½ inch Cast Steel Markers, 11 Cutting Teeth with Swing Guide, complete.....each $101.50



THE "ICE KING"

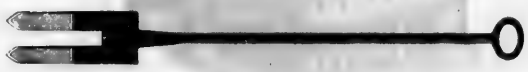


No. 7, ICE PLOW

RICE, LEWIS & SON

No. **A**—"Ice King," 7 inch, 5 Cutting Teeth, 22 inch Swing Guide with Shoe.....each $43.75
" **6**— 8 inch Cast Steel Ice Plows, 7 Cutting Teeth, weight with case 115 lbs..... " 84.00
" **7**— 9 " " " 7 " " " 120 lbs..... " 80.25
" **8**—10 " " " 6 " " " 125 lbs..... " 92.75

The No. A "Ice King" is suitable for Dairymen, Butchers and Farmers, the teeth are not ground and polished, but are left blue.



No. **31½**—Splitting Forks, length 4 ft. 7½ in., Tines 12 in. long, weight 15¼ lbs.....each $7.65



No. **35**—Fork Bars, length 4 ft. 9 in., Forks 8 in. wide, weight 16 lbs.....each 8.00



No. **42**—Bar or Packing Chisels, length 4 ft. 7 in., Blade 12 x 4¾ in., weight 15½ lbs..... each 5.75

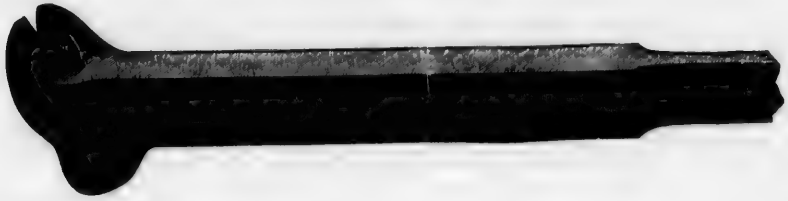


No. **100**—Ice Hooks, 4 and 4½ ft., Turned Ash Handles.....per doz. 16.25
" **100**— " 5 ft. " " ..... " 16.65

Cast Steel Ice Saws, see page 201.

# TRACK AND CROWBARS

## CLAW BARS



Claw Bars with Heel, Solid Steel.....per lb. $....

## FLAGGING BARS



Flagging Bars, Solid Steel.....per lb ....

## TAMPING BARS



Tamping Bars, Solid Steel.....per lb. ....

## CROWBARS



WEDGE POINT

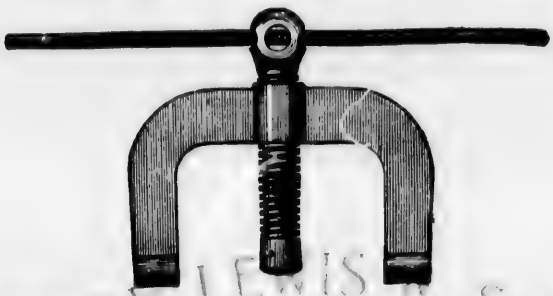


PINCH POINT

Crowbars, Solid Steel, Assorted Weights.....per lb. ....

# RAILROAD TRACK TOOLS

## SCREW RAIL BENDER OR "JIM CROW"



Screw Rail Benders or "Jim Crows".....each $.....

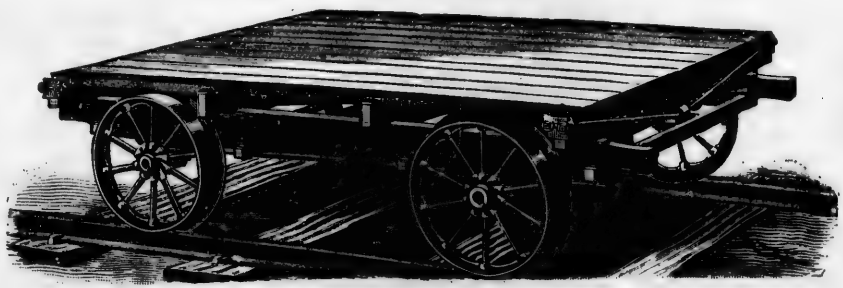
These Benders can be made to suit any section of rail; when ordering, a sectional drawing of rail should be sent.

## RAIL TONGS



Rail Tongs, Solid Steel, Weight 15 to 25 lbs.....per lb. $.....

## RAIL OR CONSTRUCTION CARS



We are prepared to make to order, on short notice, Push Cars for use in laying track, etc. Prices on application.

# TACK CLAWS AND HAMMERS



No. **0**—Wood Handle, Short Shank, Polished.....per doz. $0.65

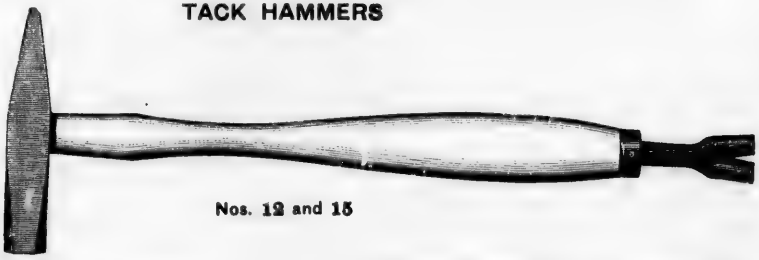


No. **46**—Wood Handle, Flat Polished Steel Blade, Riveted Tang.....per doz. 1.40
" **15**—Drop Forged Steel, Polished, Length 6¾ inch..... " 3.95

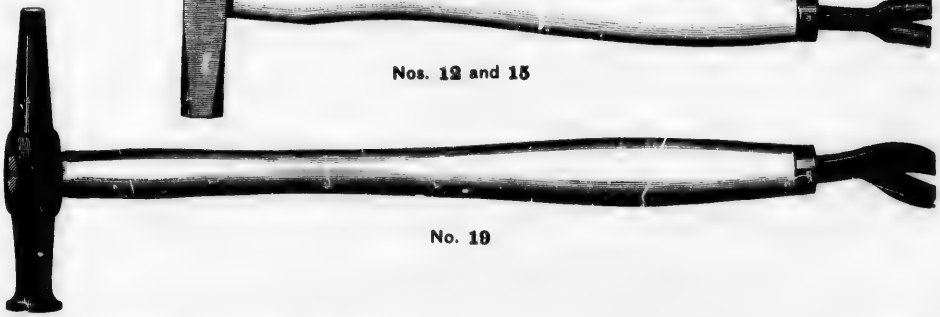



No. **20**—Malleable Handle, Tempered Steel Points.....per doz. 1.50

## TACK HAMMERS



Nos. **12** and **15**



No. **19**

No. **160**—Wood Handle, Claw Head, Polished.....per doz. 1.30
" **12**— " Imitation Cast Steel, Polished, Large " 1.05
" **15**— " " " " " 0.95

No. 160 is the same pattern as an ordinary Claw Hammer, only lighter.

No. **19**—Wood Handle, Magnetic Head, Japanned.....per doz. 1.85

One dozen in a box.

# UPHOLSTERERS' HAMMERS

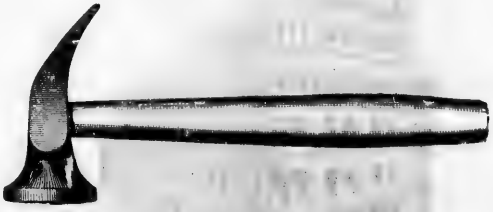


No. 6354

| | | | |
|---|---|---|---|
| No. | 24—Polished Steel Head, with Claw | per doz. | $1.75 |
| " | 10117—Bright Steel Head, without Claw | " | 7.00 |
| " | 10118— " " " with " | " | 7.25 |
| " | 2031K— " " " without " | " | 7.75 |
| | 6354—Polished " " with " | " | 17.85 |

Half-dozen in a box.

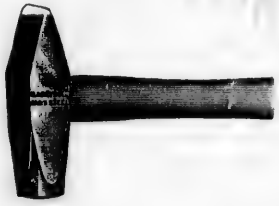
## STEEL FACED SHOE HAMMERS



No. 3—Shoe Hammer, Steel Faced ..... per doz. 6.90

Half-dozen in a package.

## RIVETING HAMMERS



Cast Steel, Plain Eye.

| No | 010 | 012 | 013 | 014 | 014½ |
|---|---|---|---|---|---|
| Weight | 1½ lb. | 1¼ lb. | 13 oz. | 7 oz. | 4 oz. |
| Per dozen | $8.50 | 7.50 | 6.50 | 5.50 | 5.00 |

## TINNERS' HAMMERS



Cast Steel, Plain Eye, Square.

| No | 000 | 00 | 0 |
|---|---|---|---|
| Weight | 1 lb. | 14 oz. | 12 oz. |
| Per dozen | $8.50 | 7.50 | 6.75 |

Half-dozen in a box.

The weights given do not include weight of handles.

# NAIL HAMMERS




Full size, No. 1½

## ADZE EYE, SOLID CAST STEEL HAMMERS, HANDLED

| Nos. | 0 | 1 | 1½ | 3 | 21 | 22 | |
|---|---|---|---|---|---|---|---|
| Weight | 1½ | 1½ | 1 | ¼ | 1 | 1¼ | lbs. |
| Per doz | $9.50 | 8.50 | 7.50 | 7.00 | 5.50 | 6.50 | |

No. **101½**—Adze Eye, Steel, Full Polished, Weight 1 lb. 4 oz. ..... per doz. $3.15
" **102** — " Cast Iron, Full Polished, Weight 1 lb. 3 oz. ..... " 2.25
" **103** — " " " Nickel-Plated, Weight 1 lb. 3 oz. ..... " 2.65

## BRAD HAMMERS

No. **30**—Adze Eye, Solid Cast Steel, Polished, Weight 7 oz. ..... per doz. 4.50



Full size, No. 61½

## ADZE EYE, BELL FACE, SOLID CAST STEEL HAMMERS, HANDLED

| Nos. | 61 | 61½ | 63 | |
|---|---|---|---|---|
| Weight | 1½ lbs. | 1 lb. | 7 | oz. |
| Per dozen | $8.50 | 7.50 | 7.00 | |

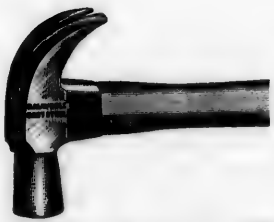
No. **10**—Cast Iron, Weight 1 lb. 3 oz. ..... per doz. $3.10

Half-dozen in a box.

The weights given do not include weight of handles.

# NAIL HAMMERS

## MAYDOLE'S



Nos. 1 and 1½, ROUND FACE



Nos. 11, 11½ and 13, BELL FACE

**Maydole's Adze Eye, Solid Cast Steel, Handled.**

| Nos | 1 | 1½ | 11 | 11½ | 13 |
|---|---|---|---|---|---|
| Weight | 1¼ lbs. | 1 lb. | 1 lb. 3 oz. | 1 lb. | 7 oz. |
| Per dozen | $8.75 | 8.00 | 8.75 | 8.00 | 6.75 |

## IMPROVED NAIL-HOLDING HAMMER, HANDLED




No. 50

No. **50**—Adze Eye, Solid Cast Steel, Weight 1¼ lbs. ..... per doz. $12.50

By this improvement free use of the hands is given when driving the nail beyond the ordinary reach.

## BOX OPENING HAMMER, HANDLED




No. 111

No. **111**—Solid Cast Steel, Weight 1½ lbs ..... per doz. 10.00

Half-dozen in a box.

The weights given do not include weight of handles.

# BLACKSMITHS' HAMMERS

## HANDLED



No. 16



No. 17

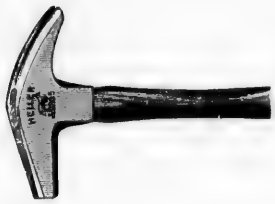
No. **16**—Heller & Bros.' Rounding Hammers, with Handles, 2 to 3 lbs ..... per doz. $24.00
" **17**— " " Cat's Head or Turning Hammers, with Handles, 2 to 3 lbs ..... " 24.00

Quarter-dozen in a box.

## FARRIERS' HAMMERS



No. 18



No. 19

No. **18**—Heller & Bros.' Driving Hammers, with Handles, 13 to 20 oz ..... per doz. $12.50
" **19**— " " " " " 11 to 20 " ..... " 10.00



No. 152



No. 253



No. 55

No. **152**—Maydole's Driving Hammers, with Handles, Boston Pattern, 10 oz. ..... per doz. $8.00
" **253**— " " " " Adze Eye, Round, 8 " ..... " 7.00
" **27**—Gardner's " " " Boston Pattern, 15 " ..... " 8.00
" **53**— " " " " Adze Eye, Octagon, 10 " ..... " 7.50
" **55**— " " " " Plain Eye, Round, 8 " ..... " 5.00

Half-dozen in a box.

The weights given do not include weight of handles.

# MACHINISTS' HAMMERS




No. 8
CROSS PEIN

No. 22, BALL PEIN

No. 9
STRAIGHT PEIN

Solid Cast Steel, Octagon, without Handles.

| | | ½ | ¾ | 1 to 3 lbs. |
|---|---|---|---|---|
| Weights | | | | |
| No. 22—Ball Pein | per lb. | $0.52 | 0.42 | 0.32 |
| " 8—Cross Pein | " | .... | .... | 0.32 |
| " 9—Straight Pein | " | .... | .... | 0.32 |

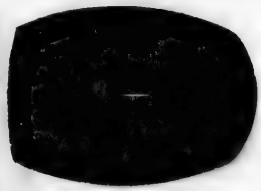
## MACHINISTS' COPPER HAMMERS



Pure Copper, with Hardwood Handles.

| Nos. | 1 | 2 | 3 | 4 | 5 | 6 | |
|---|---|---|---|---|---|---|---|
| Weight | ½ | 1 | 1½ | 2 | 2½ | 3 | lbs. |
| Each | $0.75 | 1.15 | 1.35 | 1.65 | 2.05 | 2.40 | |

## CAST IRON SLEDGES



With Round Tapering Body.

Weights 10 to 12 lbs. ..... per lb. $0.06

## BLACKSMITHS' SLEDGES




No. 45

Solid Cast Steel, Polished Face and Pein.

| | | |
|---|---|---|
| No. 45—Cast Steel Sledges, Cross Pein, Weights 6 to 14 lbs. | per lb. | $0.11½ |
| " 141—Peter Wright's C. S. Cross Pein Sledges, 2½ to 4 lbs. | " | 0.21 |
| " 139— " " " " Double-Faced Sledges, 3½ to 8 lbs. | " | 0.21 |

# BLACKSMITHS' TURNING SLEDGES



Cast Steel Turning Sledge, Octagon, without Handles.

No. **15**—Heller & Bros., Weights 5 to 10 lbs.....per lb. $0.36½

## COLD CHISELS




No. **78**—Cast Steel Cold Chisels, Weights 1 to 3 lbs.....per lb. 0.25

## HARDIES



No. 83

## FLATTERS



No. 84

No. **83**—Cast Steel Hardies, Shanks ¼ to 1½ inches square.....per lb. 0.25
" **84**— " Flatters, 1 to 4½ inches..... " 0.25

# BLACKSMITHS' TOOLS

## SWEDGES




No. 77, BOTTOM




No. 78, TOP

No. **77**—Cast Steel Bottom Swedges, Sizes ¼ to 3 inches.....per lb. $0.30
" **78**— " Top " " ¼ to 3 " ..... " 0.30

## FULLERS




No. 79, TOP




No. 80, BOTTOM

No. **79**—Cast Steel Top Fullers, Sizes ¼ to 3 inches.....per lb. 0.25
" **80**— " Bottom " " ¼ to 3 " ..... " 0.25

# BLACKSMITHS' PUNCHES AND CREASERS




No. 81




No. 82




No. 85

No. **81**—Round Punches, Sizes ¼ to 1 inch ..... per lb. $0.25
" **82**—Square " " ¼ to 1 " ..... " 0.25
" **85**—Adze Eye Creaser ..... " 0.25

## STONE WEDGES




No. **73**—Stone Wedges, Weights 2 to 6 lbs ..... per lb. 0.10

## WOOD CHOPPERS' WEDGES




No. **69**—Wood Choppers' Wedges, Truckee Pattern, weight as desired ..... per lb. 0.10

# STRIKING OR MINING HAMMERS




No. **57**—Cast Steel, Western or Long Pattern, Polished Faces, 3 to 5 lbs..... .....per lb. $0.14
" **57**— " " " " " " over 5 lbs..... " 0.11½

## HAND DRILLING OR STONE CUTTERS' HAND HAMMERS



No. **54**—Cast Steel, Eastern or Short Pattern, Polished Faces, 3 to 5 lbs. .....per lb. 0.14
" **54**— " " " " " " over 5 lbs,..... " 0.11½

## NAPPING HAMMERS




No. **58**—Cast Steel Napping Hammer, Polished Faces, 1½ to 3 lbs..... .....per lb. 0.14

## TRACK MAULS




No. **65**—Cast Steel Railroad Track Mauls, Polished Face and Pein, 7 to 10 lbs..... .....per lb. 0.13

# SHIP MAULS




No. **66**—Cast Steel Ship Mauls, Polished Face, 4½ to 6 lbs.....per lb. $0.19

## SINGLE FACE SPALLING OR STONE HAMMERS




No. **50**—Cast Steel Spalling or Stone Hammers, Polished Face, 3 to 5 lbs.....per lb. 0.14
" **50**— " " " " over 5 lbs..... " 0.13

## STONE AXES

### TWO CUTTING EDGES

No. **52**—Cast Steel Stone Axes, Weight 5 to 12 lbs.....per lb. 0.15½

## DOUBLE FACE SPALLING OR STONE HAMMERS




No. **51**—Cast Steel Spalling Hammers, Polished Double Face, 12 to 22 lbs.....per lb. 0.13

# STONE SLEDGES



No. **48**—Cast Steel Stone Sledges, Polished Face, 16 to 26 lbs. ..... per lb. $0.11½

## BUSH HAMMERS



No. **53**—Cast Steel Masons' Bush Hammers, 3 to 5 lbs ..... per lb. 0.60
" **53**— " " " " over 5 lbs. ..... " 0.56

## FOULDS' MULTIPLEX STONE CUTTERS




No. 1 No. 2 No. 3

The Handles are Malleable Iron; the Blades are Cast Steel, Adjustable and Reversible.

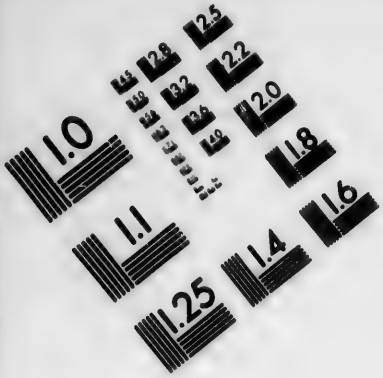
| | | ½ | 1 | 2 | 3 | inch. |
|---|---|---|---|---|---|---|
| Width | | | | | | |
| Handles, separate | each | $0.25 | 0.25 | 0.30 | 0.40 | |
| Nos. 2 or 3 Cutters | " | 0.06 | 0.06 | 0.09 | 0.12 | |

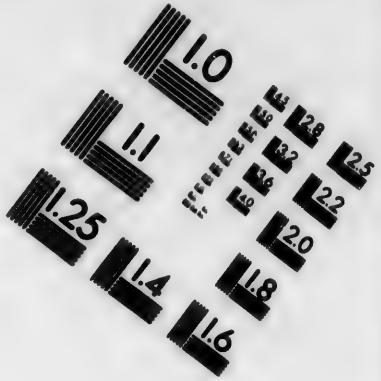
**LEAD WIRE**, for use in Handle Socket ..... per hank $0.50

## MASONS' STONE PICKS

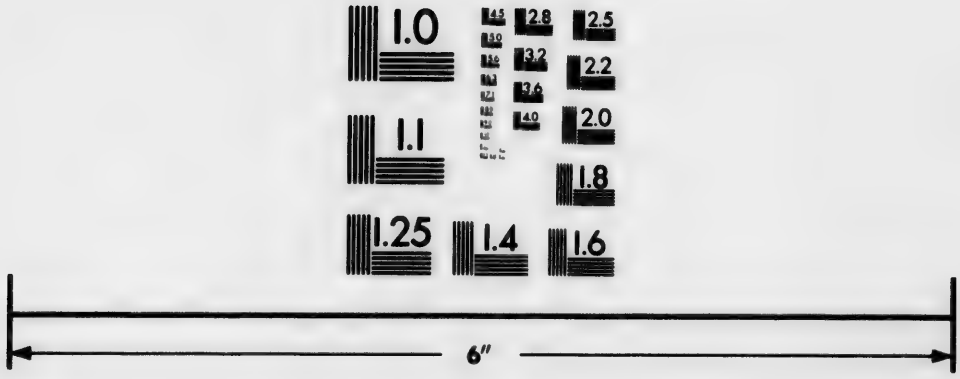


No. **64**—Cast Steel Masons' Stone Picks, 5 to 12 lbs. ..... per lb. 0.26




# IMAGE EVALUATION TEST TARGET (MT-3)










Photographic Sciences Corporation

23 WEST MAIN STREET
WEBSTER, N.Y. 14580
(716) 872-4503

# GRUB HOES AND MATTOCKS



GRUB HOE



EDGE MATTOCK

| | | |
|---|---|---|
| Grub Hoes, Round Eye, 4½ inch Cutter | per doz. | $10.50 |
| Edge Mattocks, Adze Eye, Short Cutter, 4½ inch | " | 10.00 |
| " " " Long " 6 inch | " | 10.50 |



PICK MATTOCK

| | | |
|---|---|---|
| Pick Mattocks, Adze Eye | per doz. | 10.50 |

2 dozen in a box.

# RAILROAD PICKS



Railroad or Clay Picks, Adze Eye, Steel Pointed.

| Weights, assorted | 5 to 6 | 6 to 7 | 7 to 8 | 8 to 9 lbs. each. |
|---|---|---|---|---|
| Per dozen | $7.20 | 7.80 | 8.40 | 9.60 |

**Rock Picks**, Solid Eye, Steel Pointed, both Ends Pointed, Assorted Weights 9 to 10 lbs. each ..... per doz. $12.00

## COAL PICKS



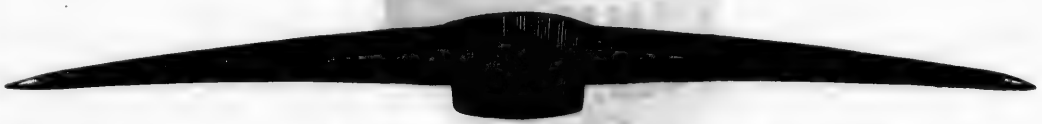
Coal Picks, Solid Eye, Steel Pointed, Weights 2, 2½, 3 and 3½ lbs. each ..... per doz. 12.00

## MINERS' DRIFTING PICKS



Miners' Drifting Picks, Solid Steel, Assorted Weights 4 to 5 lbs. each ..... per doz. 12.00

## YUKON DRIFTING PICKS



Yukon Drifting Picks, Solid Steel, 28 to 30 inches long, Weight 5 to 6 lbs. each ..... per doz. 12.00

## KLONDIKE PICKS, STRAPPED



Klondike Picks, Strapped and Handled, Length 28 to 30 inches, Weight exclusive of Handle, 4¾ to 5 lbs. each.
Per doz. ..... 18.00

# POLL PICKS



British Columbia Pattern, Drift Eye, Solid Cast Steel, assorted, 4½ to 5 lbs. ..... per doz. $14.00
Prospectors' Poll Picks, " " " " 2½ to 3 " ..... " 12.50
" " " " " " 2 to 2½ " with 34 inch Handles..... " 13.50

## PROSPECTORS' PICKS



Full Polished and Handled.

No. 1—Solid Cast Steel, with 13 inch Handles, Weight, including Handle, 2 lbs. ..... per doz. 9.75

Half-dozen in a box.

## IRON MORTARS AND PESTLES

### OR ORE-CRUSHERS



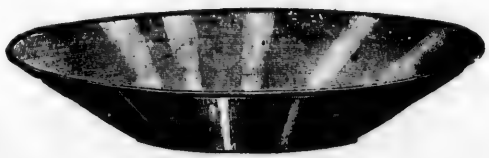
Nos. 1 and 2



No. 3

No. 1—4½ inch diameter, 4½ inch deep, Polished Inside, will hold about ½ Quart ..... per doz. 8.25
" 2—5½ " " 6 " " " " " 1 " ..... " 10.75
" 3—9 " " 8 " " " " " 3 " ..... each 3.60

## MINERS' GOLD PANS



No. 1—16½ x 2⅞ inch, Polished ..... per doz. 3.75
" 2—16½ x 2⅞ " Plain ..... " 3.00

# MINERS' CANDLESTICKS



Ideal, Colorado Pattern, Wrought Steel ..... per doz. $6.30

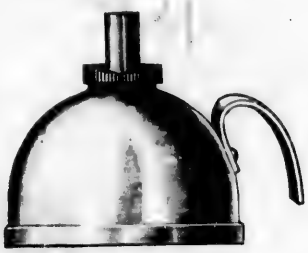
## MINERS' LAMPS



With Hinged Covers.

| | | |
|---|---|---|
| No. 1—With Short Spouts | per doz. | $2.85 |
| " 2— " Large " | " | 3.00 |

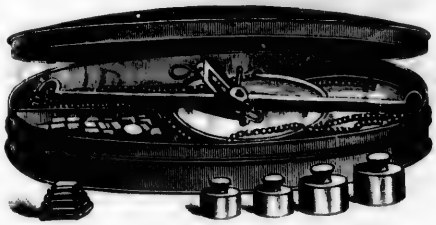
## STEEL LAMPS



Copper Plated.

| | | |
|---|---|---|
| No. 20½-3¼ inch Diameter | per doz. | 9.00 |
| " 21—4½ " " | " | 12.00 |

## POCKET GOLD SCALES



| | | |
|---|---|---|
| No. 1—In Tin Boxes, to weigh up to 2 ounces | per doz. | 15.00 |
| " 2— " " " 4 " | " | 17.75 |
| " 3— " " " 6 " | " | 21.00 |

## QUICKSILVER

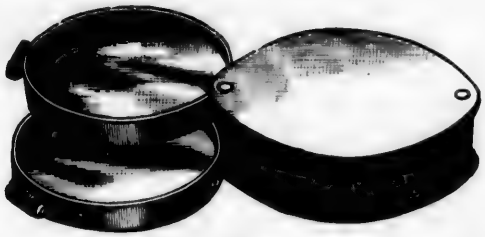
Quicksilver, in Metallic Flasks of 76½ lbs. ..... per lb. 0.80

In less quantities, Flasks extra.

# PROSPECTORS' MAGNIFYING GLASSES



No. 75

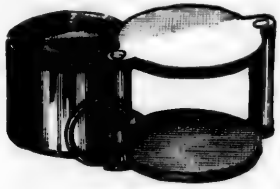


No. 76

No. 75—Oxidized Metal, with one Lens, $1\frac{1}{8}$ inch diameter ..... per doz. $3.00
" 76— " " " two Lenses, giving different powers, $1\frac{1}{4}$ inch diameter ..... " 6.50



No. 77



No. 85

No. 77—Oxidized Metal, with three Lenses, giving various powers, $1\frac{1}{4}$ inch diameter ..... per doz. $ 8.00
" 85—Standard Miners' Glass, Nickel-plated Case, Double Lenses, with Diaphragm, High Magnifying Power, $1\frac{1}{2}$ inch diameter ..... per doz. 13.50

## POCKET COMPASSES

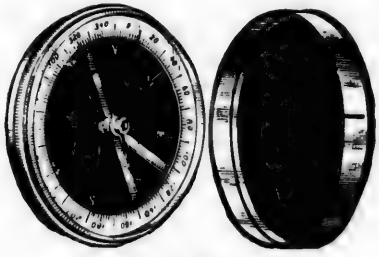
### WITH BRASS SLIP COVERS



Nos. 50 to 52



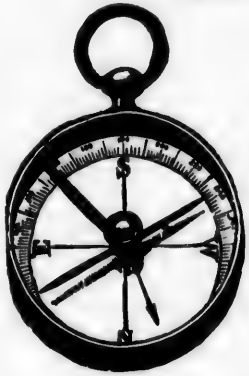
Nos. 53 to 55



No 56

No. 50—Card Dial, $1\frac{3}{4}$ inch diameter ..... per doz. $ 2.40
" 51— " $1\frac{7}{8}$ " " ..... " 2.60
" 52— " $1\frac{1}{4}$ " " ..... " 2.80
" 53—Silvered Metal Dial, Full Division, $1\frac{7}{8}$ inch diameter, Needle with Jewelled Centre, with Stop " 12.50
" 54— " " " " $1\frac{3}{4}$ " " " " " " " " " " 13.00
" 55— " " " " 2 " " " " " " " " " " 13.50
" 56—Heavy Brass Case and Cover, Oxidized Metal Dial, Full Divisions on Raised Circle, $2\frac{1}{2}$ inch diameter, English Bar Needle with Jewelled Centre. It is particularly recommended for Miners' and Lumbermen's use, as it is water and dust proof, and the Needle is more easily seen at night. Per dozen ..... 22.50

# POCKET AND SURVEYORS' COMPASSES



Nos. 58 to 60



Nos. 61 to 63

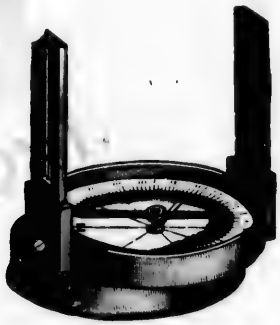


Style Case of Nos. 64 to 67

| | | Per Doz. |
|---|---|---|
| No. 57 | —Nickel-Plated, Open Face, Metal Dial, $1\frac{5}{8}$ inch diameter | $ 4.50 |
| " 58 | —Brass, Open Face, Silvered Metal Dial, Full Divisions on Raised Circle, $1\frac{7}{8}$ inch diameter, English Bar Needle with Jewelled Centre | 16.50 |
| " 59 | —Brass, Open Face, Silvered Metal Dial, Full Divisions on Raised Circle, $1\frac{3}{4}$ inch diameter, English Bar Needle with Jewelled Centre | 17.50 |
| " 60 | —Brass, Open Faced, Silvered Metal Dial, Full Divisions on Raised Circle, 2 inch diameter, English Bar Needle with Jewelled Centre | 18.50 |
| " 61 | —Brass, Hinged Cover, Silvered Metal Dial, Full Divisions, $1\frac{5}{8}$ in. diam., Needle with Jewelled Centre | 15.00 |
| " 62 | — " " " " " $1\frac{3}{4}$ " " " " | 16.00 |
| " 63 | — " " " " " 2 " " " " | 17.00 |
| " 64 | —Nickel-Plated Hunting Case, Watch Style, Silvered Dial, Full Divisions, $1\frac{5}{8}$ inch diameter, Needle with Jewelled Centre | 24.00 |
| " 65 | —Nickel-Plated Hunting Case, Watch Style, Silvered Dial, Full Divisions, $1\frac{3}{4}$ inch diameter, Bar Needle with Jewelled Centre | 28.50 |
| " 66 | —Nickel-Plated Hunting Case, Metal Dial, $1\frac{5}{8}$ inch diameter | 9.75 |
| " 67 | — " " " Silvered Dial, Full Divisions, 2 inch diameter, English Bar Needle with Jewelled Centre, has Automatic Spring | 30.00 |



No. 87 and 88



No. 86

No. 86—Surveyors' Compass, Brass Case with Ring and Slip Cover, Silvered Metal Dial, Full Divisions, $2\frac{1}{2}$ inch diameter, English Bar Needle with Jewelled Centre, Folding Sights ..... each $4.25

No. 87—Surveyors' Compass, Silvered Metal Dial, with Full Divisions on Raised Circle, $3\frac{1}{2}$ inch diameter, English Bar Needle with Jewelled Centre, Folding Sights and Mounted for Jacob Staff, all fitted in Mahogany Box ..... each 7.50

No. 88—Surveyors' Compass, Silvered Metal Dial, Full Divisions on Raised Circle, $3\frac{1}{2}$ inch diameter, English Bar Needle, Folding Sights, Improved Mounting for Jacob Staff, Double Adjustment, in Mahogany Box. This Instrument is provided with two Levels for adjusting the same ..... each 9.50

# POCKET TELESCOPES

## ACHROMATIC



Pocket Telescopes, with Four Sections, Brass Finish, Morocco Covered.

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. **90**—1 inch Object Lens, with Magnifying Power of | 12 | diam., Length Closed | 6 | in., Extended | 16 | in. | each | $3.00 |
| " **91**—1½ " " " " | 19 | " " | 8 | " " | 23½ | " | " | 5.50 |
| " **92**—2 " " " " | 29 | " " | 10½ | " " | 36 | " | " | 11.50 |

## FIELD AND MARINE GLASSES

### ACHROMATIC



No. 93 Nos. 95 to 97 No. 99

No. **93**—Bardou & Son, Pocket Field Glass, 1½ inch Object Lens, Excellent Power and very handy shape to be carried in the pocket. Is recommended as a Sportsman's Glass ..... each $11.50

" **94**—Field and Marine Pocket Glass, 1⅝ Object Lens, Morocco and Nickel Finish with Small Compass on the Bar, Good Quality Lenses ..... each 4.25

" **95**—Chevelier, 2⅛ inch Object Lens, Morocco and Black Japanned Finish, Medium Quality ..... each 6.50

" **96**—Lemaire, 2¼ " " " " Oxidized " Large Eye Pieces for Day or Night use, High Power. ..... each 16.25

" **97**—Lemaire, 2¼ inch Object Lens, Morocco and Black Oxidized Finish, Large Eye Pieces for Day or Night use, High Power ..... each 17.50

" **98**—Marchand, 2¼ inch Object Lens, Morocco and Black Japanned Finish, Large Eye Pieces for Day or Night use, Good Power ..... each 8.50

" **99**—La Reine, 1⅞ inch Object Lens, Morocco and Black Japanned Finish, Changeable Eye Pieces for Theatre, Field or Marine use, Excellent Quality Lenses ..... each 21.50

" **100**—Bardou, 2¼ inch Object Lens, Morocco Covered, Black Oxidized Finish, Highest Grade Lenses .. each 22.00

The Field and Marine Glasses are provided with a Leather Case and Strap.

# EYE SHIELDS



BELT'S



SHELDON'S

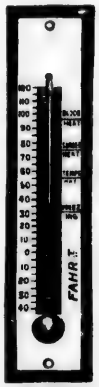
No. **20**—Belt's Eye Shields, Linen Bound, Assorted Smoked and Light Green ..... per doz. $2.80
" **22**—Sheldon's " " " " " " ..... " 2.80
" **21**— " " " " " " with case ..... " 3.30

## WIRE GOGGLES

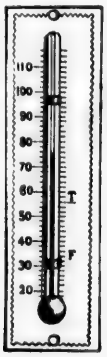


No. **3380**—All Wire, in paper boxes..... per gross $4.75
" **3381**— " in tin " ..... " 8.65
" **3382**—With Glasses, Assorted Smoked, Green and Blue, in paper boxes..... " 5.00
" **3383**— " " " " " in tin " ..... " 8.65

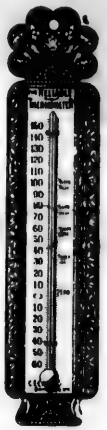
## THERMOMETERS



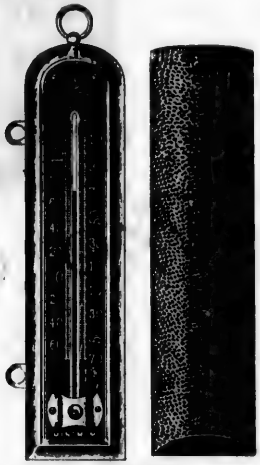
No. 193



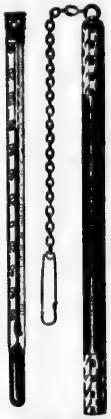
No. 47



No. 48



No. 258½



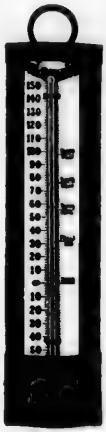
No. B

| | | Per doz. |
|---|---|---|
| No. **193**—Plate Glass Window Thermometers, Mercury Tubes, Arms for Attaching to Window, 10 inch | | $23.40 |
| " **47**—"Decorative Art" " for Calendars, Ornamental Work, etc., 3 inch | | 0.80 |
| " **48**—"Reliable" Thermometers, Decorated Tin Plate, Gold Lacquered Backs, Spirit Tubes, 8 inch | | 1.50 |

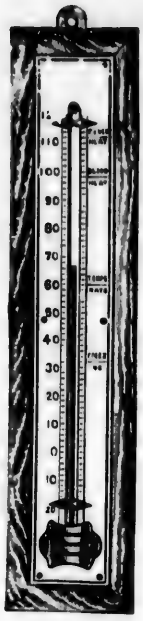
### KLONDIKE REGISTERING THERMOMETERS

No. **258½**—Minimum, Registering to 70° below Zero, Lens Tube, Oak Beveled-Edge Back, with Embossed Seal Case, 8 inch ..... 23.85
" **B**—Minimum, Registering to 70° below Zero, Lens Tube, Scale Etched on Stem, in 6 inch Gold and Enamel Case with Chain and Pin ..... 25.25

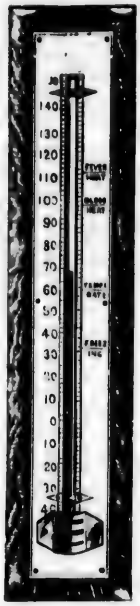
# THERMOMETERS



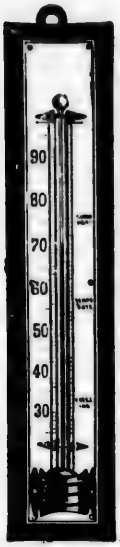
No. 30



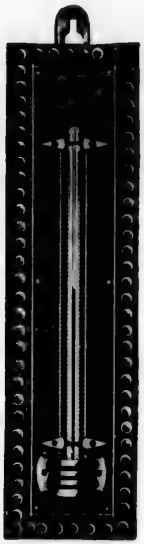
Nos. 97 to 99



Nos. 144 to 146



Nos. 151 and 152



Nos. 100 and 101



No. 370

## JAPANNED TIN CASE THERMOMETERS

| | | | | |
|---|---|---|---|---|
| Length | 7 | 8 | 10 | inch. |
| No. 30—Japanned Tin Case, per doz. | $2.00 | 2.25 | 2.65 | |
| " 31— " " Ruby Tube, " | 2.25 | 2.45 | 2.85 | |

## HOUSE OR CABINET THERMOMETERS

| | Per doz. |
|---|---|
| No. 97—Maple Back, Oval Edges, Metal Scale with Brass Trimmings, 8 inch | $ 3.90 |
| " 98— " " " " " 10 " | 5.20 |
| " 99— " " " " " 12 " | 7.80 |
| " 49—Panel, Cherry Wood Backs, " " " 8 " | 2.60 |
| " 144—Polished Oak Backs, Cove Edges, Magnifying Mercury Tube, Ivory Scale, Gilt Trimmings, 8 inch. | 23.40 |
| " 145— " " " " " " " 10 " | 31.20 |
| " 146— " " " " " " " 12 " | 46.80 |
| " 151— " " " " Spirit Tube, Metal Scale, " 10 " | 26.00 |
| " 152— " " " " " " " 12 " | 36.40 |
| " 100—Carved Oak Backs, Fine Polish, Mercury Tube, Brass Trimmings, 8 inch. | 10.40 |
| " 101— " " " " " 10 " | 14.30 |

## CONFECTIONERS' THERMOMETERS

No. 370—With Heavy Copper Case, 350° or 400°, 12 inch, per doz. 26.00

# THERMOMETERS



No. 2171



No. 37



No. 184



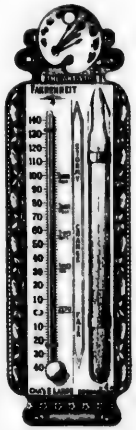
No. 380



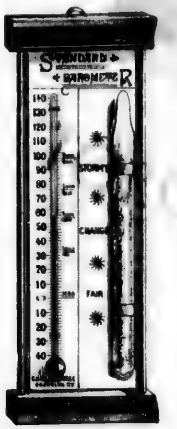
No. 1070B

| | | | | |
|---|---|---|---|---|
| Length | | | inch. | 7 | 8 |
| No. **2171**—Floating Dairy Thermometers, marked Churning, Cheese, Scalding | | | per doz. | $1.25 | 1.30 |
| " **35**—Dairy Thermometer, Bright Tin Case, Zinc Scale, marked Churning, Cheese, Scalding | | | " | 2.00 | 2.45 |
| " **37**— " " " " Zinc " Flanged Edges | | | " | 2.20 | 2.55 |
| " **184**—Bath " Wood Frame, Tube well protected with Brass Guard | | | 10 inch. per doz. | | 5.20 |
| " **380**—Enamel Oven Thermometer, Extra Heavy Flange, Registering 350° to 400° | | | 12 " " | | 31.25 |
| " **1070B**—Self Registering Thermometer, Wood Back, Registers Minimum and Maximum | | | 10 " " | | 14.50 |

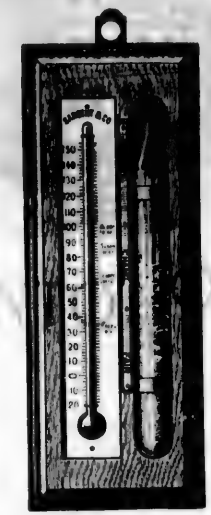
## COMBINED THERMOMETER AND BAROMETER



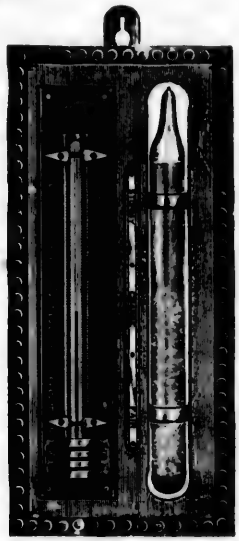
No. 50



No. 51



Nos. 100 and 314

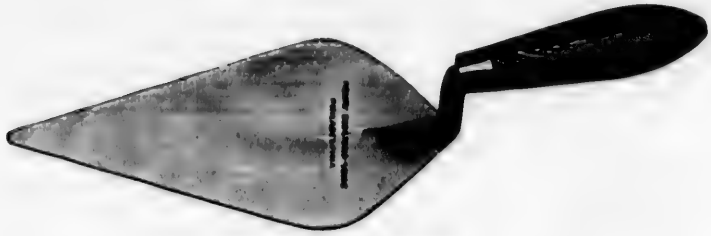


No. 76

| | | |
|---|---|---|
| No. **50**—Artistic Barometers, Mounted on Decorated Tin Plate, Gold Lacquered Backs | per doz. | $2.40 |
| " **51**—Standard " Cherry Moulding at each end, Tinned Side Rods | " | 2.00 |
| " **100**—Sargent's " Varnished Wood Backs, Cove Moulded Edges | " | 4.50 |
| " **314**—Pool's Signal Service Barometer, Varnished Wood Backs, Cove Moulded Edges | " | 3.55 |
| " **76**—Mounted on Carved Oak Back, Fine Polish, Etched Bottle | " | 9.10 |

Each in a separate box, one dozen in a large box.

# BRICK TROWELS



## LONDON PATTERN

| Size | 10 | 10½ | 11 | 11½ | 12 | 13 | 13½ | 14 inch. |
|---|---|---|---|---|---|---|---|---|
| Disston's.....per doz. | $..... | 13.15 | 13.75 | 14.40 | 15.00 | 16.90 | 17.80 | 18 75 |
| Brades', No. 2030.... " | ..... | 12·50 | 12.75 | 13.10 | 13.50 | 14.30 | 14.75 | 15.20 |
| " N.Y., No. 2155 " | ..... | ..... | 11.00 | 11.50 | ..... | ..... | ..... | ..... |
| Boker's, No. 1616½... " | ..... | 4.75 | 5.00 | 5.30 | 5.50 | ..... | ..... | ..... |
| " " 1609.... " | 2.60 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |



## PHILADELPHIA PATTERN

| Size | 11 | 11½ | 12 | 12½ | 13 | 14 inch. |
|---|---|---|---|---|---|---|
| Disston's.....per doz. | $..... | 16.25 | 16.90 | 17.80 | 18.75 | ..... |
| Wm. Rose & Bros..... " | 20.00 | 20.65 | 21.35 | 22.00 | 22.75 | 24.15 |

## STONEMASONS' TROWELS

Brades', No. 2159, 8½ inch.....per doz. $8.20

## POINTING TROWELS



## GAUGING TROWELS



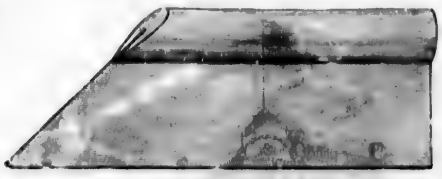
| Size | 4½ | 5 | 5½ | 6 | 7 | 8 inch. |
|---|---|---|---|---|---|---|
| Disston's, Pointing Trowels.....per doz. | $.... | 5.95 | 6.25 | 6.55 | .... | .... |
| Brades' " " ..... " | .... | 5.60 | 6.10 | 6.65 | .... | .... |
| Boker's, No. 1610½, Pointing Trowels..... " | 2.65 | 2.75 | 2.85 | 3.00 | .... | .... |
| " " 1624 Gauging Trowels..... " | .... | .... | .... | 5.10 | 5.70 | 6.30 |

# PLASTERING TROWELS



| Size | | 11 | 11½ | 12 inch. |
|---|---|---|---|---|
| Disston's, No. 1 | per doz. | $15.25 | 16.75 | 18.50 |
| " " 2 | " | 13.50 | 14.50 | 15.75 |
| Cincinnati (Woodrough & McParlins') | " | 19.50 | 20.25 | 21.00 |
| Shurly & Dietrich, No. 1, Silver Steel | " | 18.00 | 19.00 | 20.00 |

## MASONS' MITRE RODS



| | | |
|---|---|---|
| No. 1 With Back | per inch face | $0.10 |
| " 2 Without Back | " " | 0.07 |

## TUCKING JOINTERS



No. 3—Tucking Jointers, without Handles ..... per doz. 7.00

## BRICK HAMMERS



| | | |
|---|---|---|
| No. 4—Brick Hammers, Solid Steel, 8 inch Handles | per doz. | 15.00 |
| " 5— " Scrutches (similar to Hammer, but with two "Cutter" Ends) | " | 15.00 |

# HANDLES

## ADZE EYE HAMMER HANDLES



## MACHINISTS' HAMMER HANDLES



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Adze Eye Hammer Handles, Selected Second Growth Hickory | | | | | | | per doz. | $0.75 |
| " " Extra Hickory | | | | | | | " | 0.50 |
| Length | | 14 | 16 | 18 | 20 | 22 | 24 | inch. |
| Machinist's Hammer Handles, Selected Second Growth Hickory | per doz. | $0.85 | 1.00 | 1.15 | 1.30 | 1.45 | 1.60 | |
| " " Extra Hickory | " | 0.60 | 0.70 | 0.80 | 0.90 | 1.00 | 1.15 | |

## SLEDGE HANDLES



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Length | | 30 | 32 | 34 | 36 | 40 | inch. |
| Selected Second Growth Hickory | per doz. | $2.00 | 2.25 | 2.50 | 2.75 | 3.40 | |
| Extra Hickory | " | 1.60 | 1.75 | 2.00 | 2.25 | 2.75 | |

## HATCHET HANDLES



## BENCH AXE HANDLES



| | | | | | | |
|---|---|---|---|---|---|---|
| Length | | 14 | 15 | 16 | 17 | inch. |
| Shingle and Lath Hatchet Handles, Selected Second Growth Hickory | per doz. | $0.75 | 0.75 | .. .. | .. | |
| Bench Axe Handles, Selected Second Growth Hickory | " | .... | 0.90 | 0.90 | 0.90 | |

## AXE HANDLES



| | | | |
|---|---|---|---|
| No. A | Selected Second Growth Hickory, 36 inch | per doz. | $4.00 |
| " B | Extra " " 36 " | " | 3.00 |
| " C | Special No 1, " " 36 " | " | 2.00 |
| " D | " 2, " " 36 " | " | 1.50 |
| " E | Boys, No. 1, Hickory, 28 " | " | 1.25 |
| " F | Best Second Growth Oak, 36 " | " | 3.00 |
| " G | Octagon No. 1 Hickory, Hand Shaved, 36 inch | " | 2.00 |
| " H | " Extra " " 36 " | " | 3.00 |
| " K | " Selected Second Growth Hickory, Hand Shaved, 36 inch | " | 4.00 |
| " M | Oval, " " " " 36 " | " | 4.00 |

## DOUBLE BITTED AXE HANDLES



| | | |
|---|---|---|
| Double Bitted Axe Handles, Selected Second Growth Hickory, 36 inch | per doz. | $3.50 |
| " " " " 40 " | " | 4.00 |
| Broad Axe Handles, Right or Left Hand Pattern, Selected Second Growth Hickory | " | 2.50 |

# HANDLES

## ADZE HANDLES



House Carpenters' Adze Handles, Selected Second Growth Hickory ..... per doz. $2.00



Railroad or Ship Carpenters' Adze Handles, Selected Second Growth Hickory ..... per doz. 2.00

## RAILROAD, OR SURFACE PICK HANDLES



Pick or Mattock Handles, Selected Second Growth Hickory, 36 inch ..... per doz. 4.00
" " " Extra Hickory, 36 inch ..... " 2.50
" " " No. 1 Hickory, 36 " ..... " 2.00

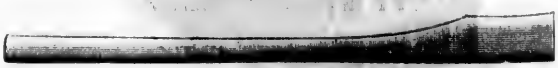
## DRIFTING PICK HANDLES



Used entirely for mining purposes.

Drifting Pick Handles, Selected Second Growth Hickory, 34 inch ..... per doz. 3.25
" " Extra Hickory, 34 inch ..... " 2.25

## MINERS' POLL PICK HANDLES



Poll Pick Handles, Selected Second Growth Hickory, 34 inch ..... per doz. 3.25

## HAND SAW AND PLANE HANDLES

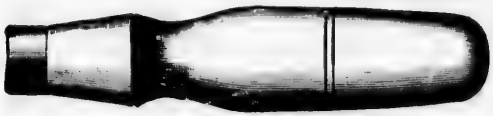


SAW No. 10 No. 12

No. 3—Hand, Panel and Rip Saw Handles, Plain ..... per doz. $1.15
" 2— " " " " Varnished ..... " 1.30
" 7— " " " " " for No. 7 Hand Saw ..... " 3.40
" D8— " " " " " " D8 " ..... " 5.40
Compass Saw Handles ..... " 1.65
No. 10—Jack Plane Handles ..... " 0.45
" 12—Jointer " " ..... " 0.80

One dozen in a box.

# CHISEL HANDLES



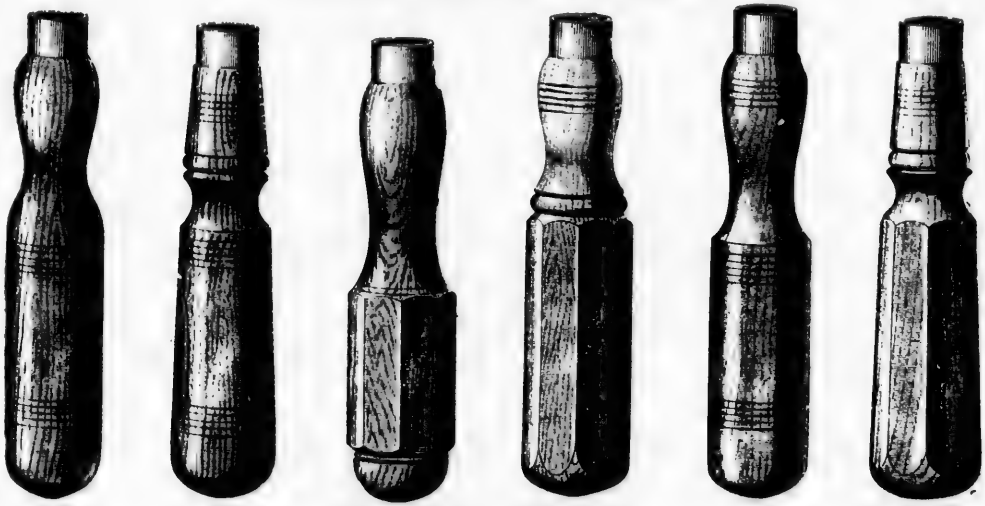
TANGED FIRMER



SOCKET FIRMER

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| No. **31**— | Tanged | Firmer | Chisel | Handles, | Hickory, | Brass | Ferrule, | Assorted, 6 sizes | per gross | $ 5.20 |
| " **36**— | " | " | " | " | " | " | " | 6 large sizes | " | 7.20 |
| " **37**— | " | " | " | " | " | " | " | extra large | " | 8.80 |
| " **38**— | " | " | " | " | " | " | " | largest size made | " | 10.40 |
| " **41**— | " | " | " | " | Applewood | " | " | Assorted, 6 sizes | " | 6.40 |
| " **46**— | " | " | " | " | " | " | " | large size only | " | 8.00 |
| " **47**— | " | " | " | " | " | " | " | extra large size only | " | 9.60 |
| " **48**— | " | Carving | " | " | " | " | " | about 4 × ⅝ inch | " | 8.00 |
| " **61**— | Socket | Firmer | " | " | " | Assorted, 6 sizes | | | " | 5.20 |
| " **66**— | " | " | " | " | " | large sizes only | | | " | 6.80 |
| " **67**— | " | " | " | " | " | extra large sizes only | | | " | 8.00 |

## TANGED FIRMER CHISEL HANDLES



No. 210 | 211 | 212 and 212½ | 213 and 213½ | 214 | 215 and 215½

**BOXWOOD**

| Nos | **210** | **211** | **212½** | **213½** | **214** | **215½** |
|---|---|---|---|---|---|---|
| In sets of 12, for Chisels ⅛ to 2 inch...per set | $2.15 | 2.90 | 3.55 | 3.05 | 2.65 | 3.55 |

**BEECHWOOD**

| Nos | **212** | **213** | **215** |
|---|---|---|---|
| In sets of 12, for Chisels ⅛ to 2 inch ..... per set | $1.60 | 1.60 | 1.60 |

## SOCKET FRAMING CHISEL HANDLES



No. **71**—Socket Framing Chisel Handles, Hickory, Assorted, 6 sizes ..... per gross $6.80

## RAWHIDE CAP CHISEL HANDLES

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| No. **A**—Tanged | Firmer | Chisel | Handles, | Hickory, | Brass | Ferrules, | Assorted, 5 sizes | per gross | $15.40 |
| " **B**— | " | " | " | " | " | " | " | 2 large sizes | " | 16.80 |
| " **AA**—Socket | " | " | " | " | " | " | " | Assorted, 5 sizes | " | 15.40 |
| " **CC**—Framing | | " | " | " | " | " | " | one size | " | 18.20 |

One dozen in a box.

# TURNSCREW HANDLES

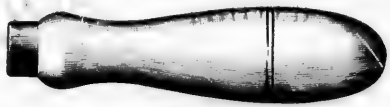


Beechwood, with Heavy Capped Ferrules, Drilled and Slotted.

| Size for | | 5 | 6 | 8 | 10 inch. |
|---|---|---|---|---|---|
| No. **62** | per doz. | $0.75 | 0.95 | 1.20 | 1.75 |
| " **1380**—Marples' Varnished Beechwood, Assorted for 5, 6, 7 and 8 inch | per doz. | $2.25 | | | |

One dozen in a box.

## FILE HANDLES



| | | |
|---|---|---|
| No. **121**—Basswood File Handles, Assorted, 4 sizes | per gross | 2.40 |
| " **123**— " " " 2 larger sizes | " | 2.85 |

Quarter gross in a box.

## BRAD AWL HANDLES

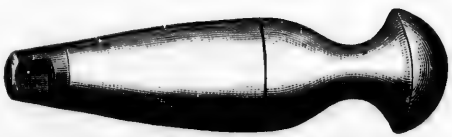


No. **1373**—Marples' Oval **Brad** Awl Handles, Beechwood Varnished, Brass Ferrule, Assorted ..... per gross 6.00

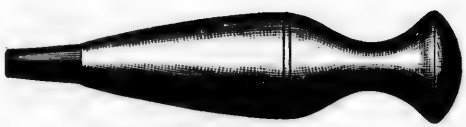
## AWL HAFTS



No. 51, PEG AWL HAFT



No. 46, SEWING AWL HAFT



No. 21, SEWING AWL HAFT

| | | |
|---|---|---|
| No. **51**—Peg Hafts, Leathered Top | per doz. | $0.90 |
| " **46**—Sewing " Short Nut | " | 0.90 |
| " **21**— " " Brass Ferrule | " | 0.50 |

# AUGER HANDLES



No. 1

No. 1—Plain Auger Handles, assorted ..... per doz. $0.50

## IVES' PATENT AUGER HANDLES



No. 2



No. 3

Will hold any size Auger.

| | | | |
|---|---|---|---|
| No. 2 | —In Sets of two Handles (large and small) | per set | $1.90 |
| " 2½ | —Handles separate | each | 1.25 |
| " 3 | —Millwright, in sets of two Handles (large and small) | per set | 2.50 |
| " 3½ | — " Handles separate | each | 1.60 |

No. 3 has adjustable "Cam Ring," as shown in cut of No. 2.

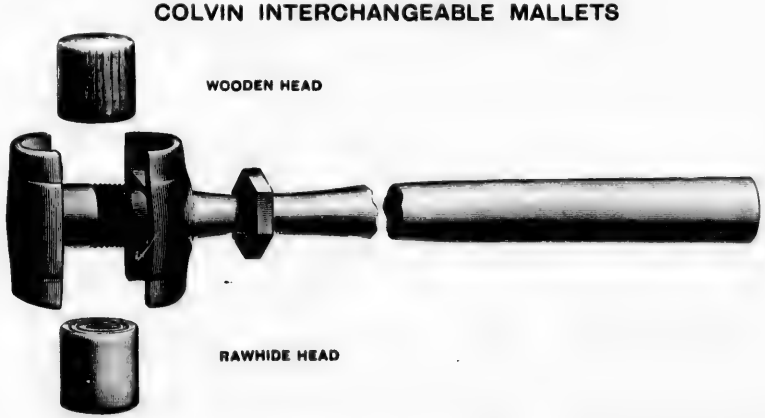
## SEAMLESS BRASS FERRULES



Nos. 7 6 4 2 0

| Nos | 10 | 9 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | 00 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Inside diameter | 1/16 | 5/64 | 3/32 | 7/64 | 1/8 | 9/64 | 5/32 | 11/64 | 3/16 | 13/64 | 1 | inch. |
| Per gross | $0.30 | 0.33 | 0.47 | 0.60 | 0.65 | 0.80 | 0.85 | 1.00 | 1.10 | 1.25 | 1.65 | |

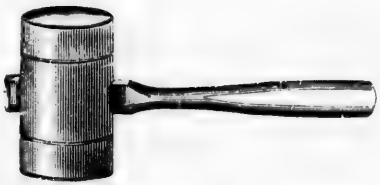
## COLVIN INTERCHANGEABLE MALLETS




| | | | |
|---|---|---|---|
| No. 3 | —With two Rawhide Heads, 1¾ inch diameter, weight 1¾ lbs | each | $2.25 |
| " 4 | — " " " " 2 " " " 3 " | " | 3.00 |
| " 3 | —Heads only | " | 0.45 |
| " 4 | — " | " | 0.65 |

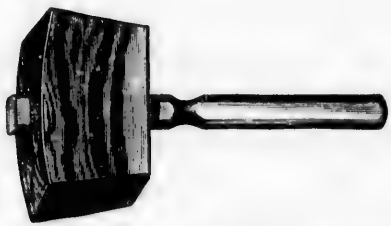
A Rawhide Head can be used on one side, with a Wooden, Copper or Hard Rubber Head on the other. Workers in copper, tin and other soft metals find them indispensable.

# MALLETS



**ROUND HEAD, Nos. 5 and 7, MORTISED HANDLES**

No. **5**—Lignum-vitæ, 5×3 inches..... .....per doz. $3.75
" **7**— " 6×4 " ..... ..... " 6.25



**SQUARE HEAD, Nos. 11 and 13, MORTISED HANDLES**

No. **11**—Lignum-vitæ, 6×2½×3½ inches... per doz. $4.75
" **13**— " 7×3×4 " ... " 7.25



**Nos. 1 to 10**



**No. 14**

No. **1**—Tinners' Mallets, Second Growth Ash.....per doz. 1.50
" **2**— " " Applewood..... " 1.90
" **3**— " " Second Growth Hickory..... " 2.25
" **8**—Carpenters' Mallets, Hickory, Oil Finish, 6×3¼ inch..... " 2.80
" **9**— " " " " 6×3½ " ..... " 3.10
" **10**— " " " " 6½×4 " ..... " 4.00
" **14**— " " " with Iron Rings, 6×4 inch..... " 6.00

## IRON SOCKET MALLET



No. **16**—3 inch Hickory Ends.....per doz. $9.40

## STONE CUTTERS' MALLETS



Hickory, Assorted, 4 to 7 lbs.....per doz. 30.00

## CARVERS' MALLETS



No. **17**—Maple, Carvers' Mallets, 8 inches long over all, 3¼ inch diameter Head .....per doz. 3.25

# TOOL BASKETS



| Size | Medium | Large | Extra Large. |
|---|---|---|---|
| Bound ..... per dozen | 30 | 33 | 36 inches. |
| Bound and Lined ..... " | $3.00 | 3.75 | 4.80 |
| | 5.10 | 5.50 | 6.75 |

## GIANT NAIL PULLERS




No. **1**—American, Large, length 18 inches ..... per dozen $24.00
" **2**— " Small, length 15 inches ..... " 20.00
" **1362**—Boker's Giant Pattern ..... " 13.50
" **1359**— " Pattern ..... " 12.60

## BOX OPENING CHISELS



No. **72**—12 inch Japanned, Wrought Iron, Steel Faced ..... per dozen $4.80

Half-dozen in a box.

## CAST STEEL COLD CHISEL



| Size | ⅜ | ½ | ⅝ | ¾ | ⅞ | 1 inch. |
|---|---|---|---|---|---|---|
| Per dozen | $0.95 | 1.25 | 2.10 | 2.90 | 3.65 | 4.50 |

Half-dozen in a box.

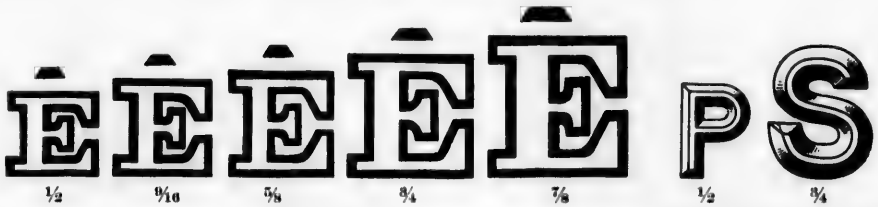
## BOX SCRAPERS.



No. **11**—5½ inch Oval Cut, Forged ..... per dozen $6.80

# METALLIC PATTERN LETTERS

## AND FIGURES



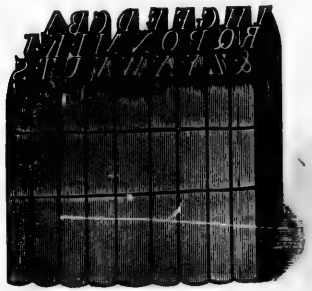
½ 9/16 5/8 3/4 7/8 ROMAN STYLE — ½ 3/4 SHARP GOTHIC STYLE

Measure on face, a ¾ inch Letter or Figure will measure 7/16 inch on the back.

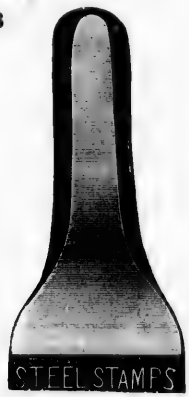
| Size | 3/16 | ¼ | 5/16 | ⅜ | ½ | ⅝ | ¾ | 1 inch. |
|---|---|---|---|---|---|---|---|---|
| Each | $0.02 | 0.02 | 0.02 | 0.02½ | 0.02½ | 0.03 | 0.03½ | 0.04½ |

To fasten the Letters or Figures to the Patterns, use a solution of gum shellac and alcohol.

## STEEL MARKING LETTERS AND FIGURES








| Size | 1/16 | ⅛ | 3/16 | ¼ | 5/16 | ⅜ inch. |
|---|---|---|---|---|---|---|
| Steel Marking Letters ..... per set | $4.40 | 4.40 | 5.40 | 6.75 | 8.10 | 10.80 |
| " Figures ..... " | 1.50 | 1.50 | 1.80 | 2.25 | 2.70 | 3.60 |
| Name Stamps ..... per letter | 0.20 | 0.20 | 0.30 | 0.35 | 0.40 | 0.50 |

50 cents per pound additional for Forgings on all Stamps with lettering over 5/16 inch.

## STENCIL ALPHABET AND FIGURES

### IN SETS





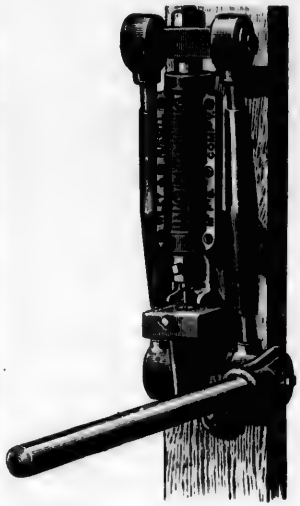

In separate pieces or made on strips.

| Size | ½ | ¾ | 1 | 1¼ | 1½ | 2 | 2½ | 3 | 4 inch. |
|---|---|---|---|---|---|---|---|---|---|
| Letters ..... per set | $0.55 | 0.70 | 1.10 | 1.35 | 1.70 | 2.70 | 3.40 | 4.05 | 5.40 |
| Figures ..... " | 0.30 | 0.35 | 0.40 | 0.55 | 0.70 | 1.00 | 1.20 | 1.35 | 2.70 |

Alphabet and Figures, Circular, 25 per cent. extra. Straight Line Business Stencils, ½ inch, 2½ cents; ¾ and 1 inch, 4 cents; 1¼ inch, 5½ cents per letter.

# PUNCHING PRESSES

Will punch ¼ inch round hole in iron ¼ inch thick, or 1⅝ inch round hole in iron ⅜ inch thick.
It will punch as far as 1½ inches from edge of the work.



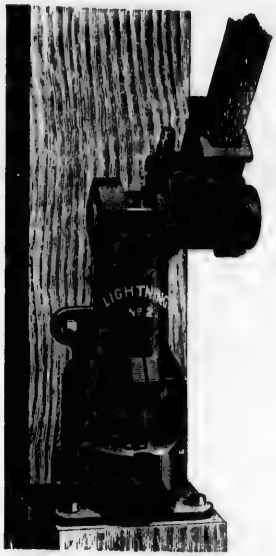
**No. 1**

Supplied with Punches and Dies, 1-8, 3-16 and 1-4 inch. Unless otherwise ordered, Punches and Dies will be supplied 1-32 inch over exact sizes. Weight 80 lbs.

**Complete** ..... **$37.50**

**Extra Punches or Dies, 75 cents each.**

The handle may be set at any angle, up or down, to suit various kinds of work.



**No. 2**

Will punch 1-2 inch hole in iron 5-16 inch thick as far as 3 1-8 inches from edge of work.

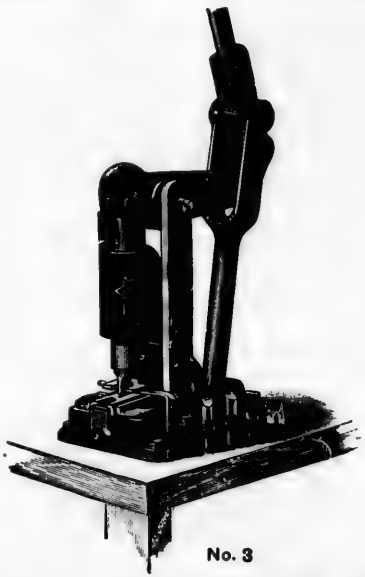
For convenience in using the larger sizes of Punches and Dies the ratchet may be brought into play by throwing in the dog. Two handles. Prices with Punches and Dies:

**No. 622**—Machine with sizes ¼, $\frac{5}{16}$, ⅜ inch ..... $67.50
" **623**— " " " ⅛, $\frac{3}{16}$, ¼, $\frac{5}{16}$, ⅜ inch... 71.25

**Extra Punches, 75 cents each; Dies, $1.15 each.**

Weight, 250 lbs.

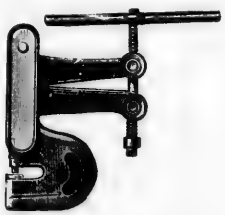
Unless otherwise ordered, Punches and Dies will be supplied 1-32 inch over exact sizes.



**No. 3**

**Complete, with four Round Punches and Dies** .. $14.00
**Complete, with 4 Punches and Dies for Saw Gumming** 15.00
**Machine, without Punches or Dies** ..... 9.00
**Round Punches or Dies** .....each 0.65
**Saw Gumming Punches or Dies** ..... " 0.90

Saw Gumming Punches and Dies are 1-8x7-8, 3-16x7-8, 1-2x7-8, 5-8x7-8, and Round Punches from 1-8 to 3-8. 1-32 oversize sent unless otherwise ordered.



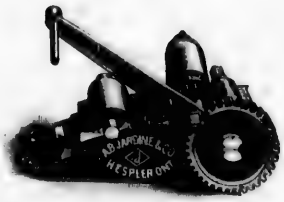
**OPEN MOUTH DUPLEX BEAR PUNCH**

Forged Steel Body, Steel Joint Pins, Screws and Nuts, with one 3-4 Round Steel Punch and Die.

**No. 2** —Centre of Punch to back 1⅝ inch..each $37.00
" **2A**— " " " " 2 " .. " 45.35

No. 2 weighs about 50 lbs., and No. 2A about 75 lbs.

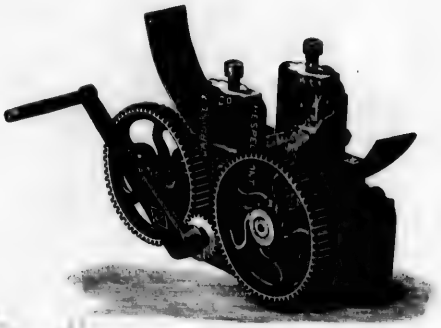
# TIRE BENDERS




No. 5

This machine will take tires up to 4 in. in width; is an excellent machine for light work, will bend 1¼ x ½ in. easily. The centre roller may be removed after bending the tire, or to admit a welded tire. It is strongly geared, and has change of speed for light and heavy work.

No. 5—Weight 65 lbs.....each $6.00



No. 2

Is strongly geared and will bend tires up to 4 in. in width, Has a change of speed for light and heavy tires. The middle roller is removable to take out tire after bending, or to round up a tire after welding.

No. 2—Weight 120 lbs.....each $9.50




No. 4

No. 4

Has all three rollers geared, a most desirable feature in a bender for heavy tires, or for bending circles. The rollers are grooved for two thicknesses of iron for circles. Unless otherwise ordered we send with grooves for ⅜ and ½ in.

This machine bends tires up to 4 x 1 in., and any lighter size; also iron up to 1¾ x ⅜ edgeways for circles. The top roller can be taken out to admit welded tire, or to take out the tire or circle after bending.

No. 4—Weight 250 lbs.....each $30.00

Countershaft, etc., to suit this machine, $25.00 extra.

## IMPROVED TIRE UPSETTER

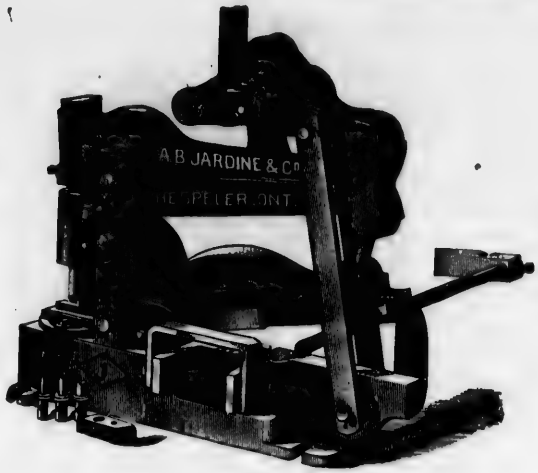
No. 1—Upsets tires up to 2 in. wide.....each $11.50

" 2—Upsets tires up to 4 in. wide..... " 13.50




Nos. 1 and 2

# PUNCH AND SHEARS




No. 1

**No. 1**

This Machine shears up to ⅝ inch square and thinner iron up to 4 inch wide. It will punch ⅞ hole in ⅝ iron or ⅝ hole in ½ iron. Weight, 250 lbs.

Price with four Round Punches and Dies... $27.00
Round Punches.....each 0.75
" Dies..... " 0.75

## HAND SHEAR

**No. 2**

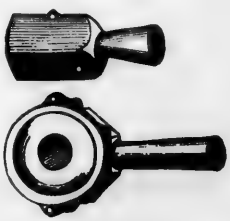
This Shear will cut off iron to ¾ square, or 1¾ × ½ inch. It is especially designed to meet the wants of a general blacksmith, and is handy and convenient, as well as durable and strong. It is provided with a fence or stop for convenience in cutting a number of pieces the same length, and a bar to prevent the iron from rising or twisting while being cut. The knives are of the best cast steel, and are adjustable for wear. Weight, 160 lbs.

Price..... $16.00




No. 2

---



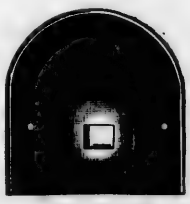
DUCK'S NEST

## TUYERE IRONS AND BACKS

Price..... .....per lb. 6c.

## DUCK'S NEST TUYERE IRONS

Price.....each $1.25



TUYERE IRON BACK

# BLACKSMITH TOOLS

## FOOT VISES

### FOR SHARPENING HORSESHOES



No. 2

With a Square Base to be bolted to the floor.

With one of these Vises you can do better work than on the anvil, and in less than half the time.

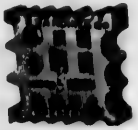
No. 2 weighs 100 lbs.

Price .....each $7.50

## TAPER MANDREL AND SWAGE BLOCKS



MANDREL



SWAGE BLOCK

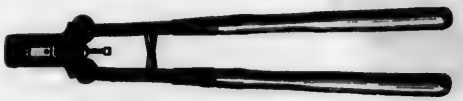
Swage Blocks, 12½ × 12½ × 4½ inch.

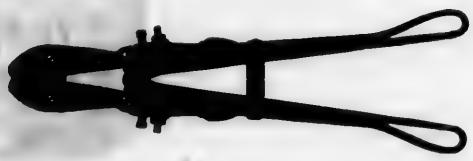
Rough .....each $6.00
Planed both sides..... " 7.00

Taper Mandrel, 12 inch diameter at base, 2½ inch at top, 48 inch high, with groove the whole length of Mandrel.

Each ..... $8.00

## BOLT CLIPPERS





| Nos. | 0J | 1J | 2J | 3J |
|---|---|---|---|---|
| For Bolts | ⅜ | ½ | ⅝ | ¾ inch. |
| Each | $3.35 | 4.05 | 5.70 | 7.25 |

| Nos | 0 | 1 |
|---|---|---|
| For Bolts | ⅜ | ½ inch. |
| Each | $4.75 | 6.25 |



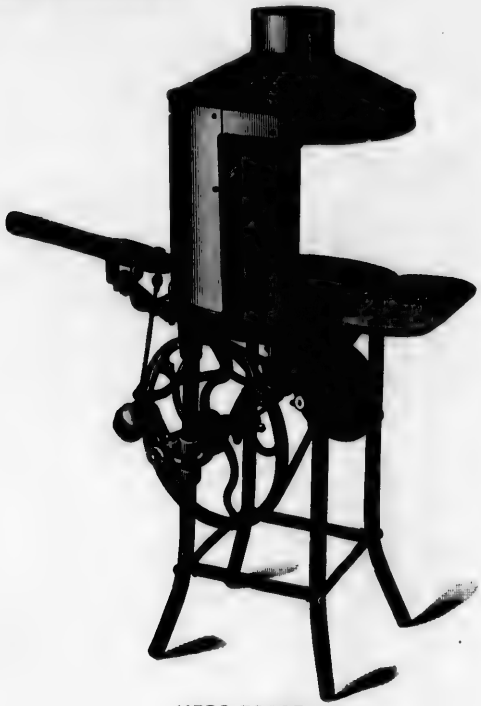

No. 2—Porter's Easy Bolt Clippers, length 30 inches, for Bolts ½ inch.....each $ 8.75
" 3— " New Easy Bolt Clippers, " 36 " " ⅝ " ..... " 11.25

Nos. 0 and 3 are the "New Easy" Clippers, adjusted by a Steel Set-Screw in each adjusting section. Nos. 1 and 2 are the "Easy" Clippers, adjusted by Shims.

# PORTABLE FORGES



LEADER FORGE, No. 12



HERO FORGE, No. 7

## LEADER FORGE, No. 12

Suitable for Light Work.

Hearth 18 inch, Height 30 inch, Weight 65 lbs.

No. 12—Half Hood.....each $16.00
" 11—Shield ..... " 14.00

## HERO FORGE, No. 7

Suitable for Mine and Tool Making.

Hearth 18 inch, Height 30 inch, Weight 75 lbs.

No. 7—Half Hood.....each $23.00
" 6—Shield..... " 20.00

## CHALLENGE FORGE, No. 5

Capacity for Heating 2 inch Iron.

Fan 9½ inch, Hearth 22 inch, Height 33 inch, Weight 90 lbs.

No. 5—Half Hood.....each $27.00
" 4—Shield..... " 24.00



CHALLENGE FORGE, No. 5

# PORTABLE FORGES



CHALLENGE FORGE, No. 3



WESTERN CHIEF FORGE, No. 5



WESTERN CHIEF FORGE, No. 3

## CHALLENGE FORGE, No. 3

Capacity for heating 3 inch iron.

Fan 12½ inch, Hearth 35 x 23 inch, Height 30 inch, Weight 130 lbs.

| | | |
|---|---|---|
| No. 3—Half Hood | each | $40.00 |
| " 2—Shield | " | 36.00 |

## WESTERN CHIEF FORGE, No. 5

Capacity for heating 2 inch iron.

Fan 9 inch, Hearth 22 inch, Height 33 inch, Weight 100 lbs.

| | | |
|---|---|---|
| No. 5—Half Hood | each | $27.00 |
| " 4—Shield | " | 24.00 |

## WESTERN CHIEF FORGE, No. 3

Capacity for heating 3 inch iron.

Fan 12 inch, Hearth 35 x 23 inch, Height 30 inch, Weight 145 lbs.

| | | |
|---|---|---|
| No. 3—Half Hood | each | $40.00 |
| " 2—Shield | " | 36.00 |

# PORTABLE FORGES



**CHALLENGE FORGE, No. 1**

This Forge has improved Fire Pot separate from Hearth. Fan 14½ inch, Hearth 45×31 inch, Height 30 inch, Length over all 53 inch, Weight 290 lbs.

| | |
|---|---|
| Without Water Tank ..... each | $50.00 |
| With " " ..... " | 55.00 |



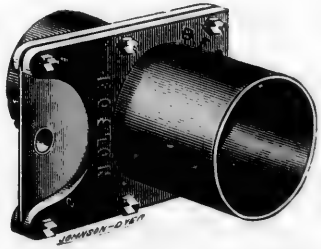
**WESTERN CHIEF FORGE, No. 1**

This Forge has Brass Boxes and Oil Cups. Fan 14½ inch, Hearth 46×33½ inch, Height 30 inch, Length over all 54 inch, Weight 300 lbs.

| | |
|---|---|
| With Coal or Water Tank ..... each | $50.00 |
| With extra " " ..... " | 55.00 |

## BLAST GATES

**FOR OPENING AND CLOSING PIPES WHICH SUPPLY BLAST TO FURNACES, FORGES, ETC.**



| Size ..... | 2 | 2½ | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Each ..... | $1.25 | 1.55 | 1.90 | 2.50 | 2.70 | 3.15 | 4.40 | 6.25 | 8.15 | 10.00 | 15.00 |

These measurements apply to the outside of the Collars of the Blast Gate.

# WESTERN CHIEF BLOWERS



Size D

## WESTERN CHIEF BLOWER

### SIZE D

With Crank and Lever Movement.

Fan 14½ inch, Fly-wheel 27 inch.

Each..... $28.50

With Brass Boxes and Oil Cups and Reversible Nose to Fan Case.



Size E

## WESTERN CHIEF BLOWER

### SIZE E

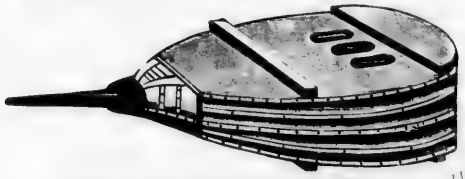
Lever Movement only.

Fan 14½ inch, Fly-wheel 27 inch.

Each..... $23.50

With Brass Boxes and Oil Cups and Reversible Nose to Fan Case.

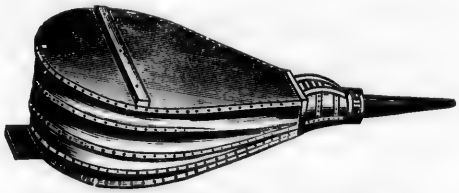
# BLACKSMITH BELLOWS



**WESTMAN'S DOMINION PATTERN**

This is a very easy working Bellows. With the three valves as shown in the engraving, and the peculiar shape of the bellows box, it will shut and open quickly, giving a greater and steadier blast than the ordinary kind.

| Size | 28 | 30 | 32 | 34 | 36 | 38 | 40 inch. |
|---|---|---|---|---|---|---|---|
| Each | $17.00 | 18.00 | 22.00 | 24.00 | 28.00 | 32.00 | 36.00 |



**WESTMAN'S ORDINARY PATTERN**



**STANDARD PATTERN**

| Size | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 inch. |
|---|---|---|---|---|---|---|---|---|---|
| No. 1—Westman's Ordinary Pattern..each | ..... | ..... | $14.00 | 15.00 | 16.00 | 17.00 | 18.00 | 22.00 | 26.00 |
| Standard Pattern..... " | $10.00 | 11.00 | 12.00 | 13.00 | 14.00 | 16.00 | 18.00 | 20.00 | ..... |
| extra long ..... " | ..... | ..... | ..... | $15.00 | 17.00 | 19.00 | 21.00 | 24.00 | ..... |

The Extra Long Bellows are made considerably longer than the Standard and have likewise a greater spread of leather. They are well adapted for ordinary blacksmith work.



**MOULDERS' BELLOWS**

| Nos. | 1 | 2 | 3 |
|---|---|---|---|
| Greatest width | 6 | 8 | 10 inch. |
| Per dozen | $11.25 | 13.15 | 16.90 |

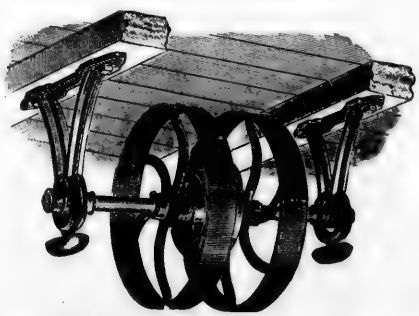


**HAND BELLOWS**

Fancy Leather, Brass Tube.

| Size | 16×6 | 18×7 inch. |
|---|---|---|
| No. 3141.....per doz. | $3.85 | 4.65 |

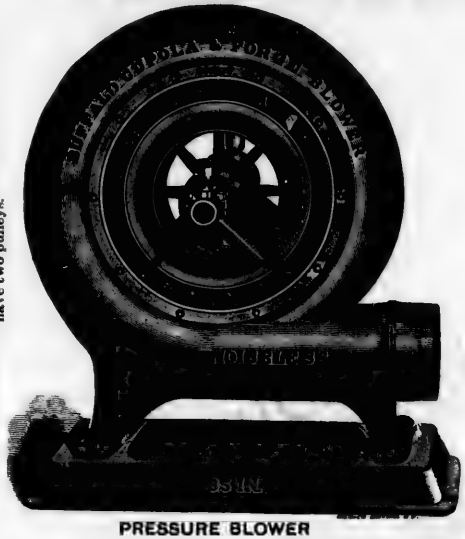
## COUNTERSHAFTS FOR STEEL PRESSURE BLOWERS



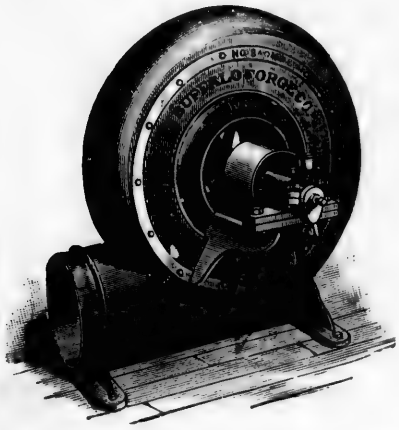
Nos. 1 to 6 regularly have but one driving pulley; Nos. 7 to 12 have two driving pulleys. Additional pulleys, also tight and loose pulleys, may be furnished on these countershafts at a small additional price.

| Number of Steel Pressure Blower | Diameter of Pulley Driving Power. | Diam. of Pulley Driven by Main Belt from Line Shaft. | Diameter of Shaft. | Price with One Driving Pulley. | Price with Two Driving Pulleys. |
|---|---|---|---|---|---|
| 1 | 12 | 4 | ¾ | $ 8.00 | |
| 2 | 14 | 5 | 1 | 10.00 | |
| 3 | 16 | 6 | 1¼ | 12.00 | |
| 4 | 18 | 7 | 1¼ | 16.00 | |
| 5 | 21 | 8 | 1½ | 20.00 | |
| 6 | 26 | 9 | 1⅝ | 25.00 | |
| 7 | 30 | 10 | 1¾ | 30.00 | $ 35.00 |
| 8 | 32 | 12 | 2 | 40.00 | 45.00 |
| 9 | 36 | 14 | 2¼ | 50.00 | 60.00 |
| 10 | 40 | 16 | 2½ | 70.00 | 80.00 |
| 11 | 42 | 17 | 2⅝ | 80.00 | 90.00 |
| 11½ | 44 | 18 | 3 | 90.00 | 100.00 |
| 12 | 44 | 18 | 3 | 100.00 | 110.00 |

# THE BUFFALO STEEL BLOWERS AND EXHAUSTERS



Nos. 1 to 6 Blowers, inclusive, have one pulley, and Nos. 7 to 12 have two pulleys.

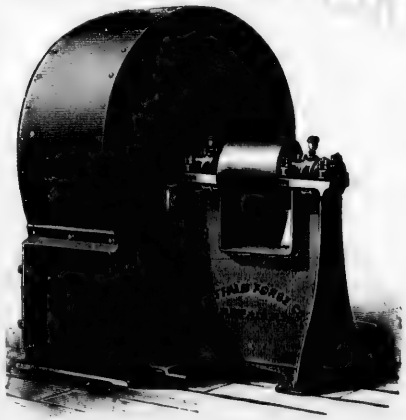


## PRESSURE BLOWER
### FOR CUPOLA AND FORGE FIRES

| Number of Blower. | Height in Inches. | Diameter of Outlet. | Diameter of Pulley. | Face of Pulley. | Price without Countershaft. | Price with Countershaft. | Adjustable Bed. | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | Price with Bed but without Countershaft. | Price with Bed and with Countershaft. |
| 1 | 12½ | 3⅜ | 2½ | 1¾ | $12.00 | $20.00 | | |
| 2 | 15 | 4 | 2½ | 2¼ | 18.00 | 28.00 | | |
| 3 | 20 | 4⅝ | 3¼ | 2⅝ | 26.00 | 38.00 | | |
| 4 | 24 | 5⅜ | 4 | 3 | 36.00 | 52.00 | | |
| 5 | 26 | 5½ | 4¼ | 3 | 44 00 | 64.00 | | |
| 6 | 30 | 6¼ | 4½ | 3½ | 55.00 | 80.00 | | |
| 7 | 35 | 7¼ | 5 | 4½ | 70.00 | 100.00 | $100.00 | $135 00 |
| 8 | 40 | 8⅜ | 6 | 4½ | 90.00 | 130.00 | 130.00 | 175 00 |
| 9 | 45 | 10 | 7 | 5 | 115.00 | 170.00 | 170.00 | 230 00 |
| 10 | 56 | 12¼ | 8 | 5½ | 160.00 | 230.00 | 265.00 | 350 00 |
| 11 | 66 | 14⅜ | 9 | 6¼ | 225.00 | 300.00 | 330 00 | 435 00 |
| 11½ | 76 | 16½ | 10 | 7 | 275.00 | 350.00 | 380.00 | 500 00 |
| 12 | 80 | 18 | 10 | 8 | 325.00 | 400 00 | 475.00 | 625 00 |

## STYLE "B" BLOWERS AND EXHAUSTERS
### FOR FORGES, FURNACES, VENTILATING, DRYING AND COOLING

| No. of Blower or Exhauster. | Height in Inches. | Diameter of Outlet. | Diameter of Inlet. | Diameter of Pulley. | Face of Pulley. | Price. |
|---|---|---|---|---|---|---|
| 000B | 14½ | 4½ | 4½ | 2¾ | 2¼ | $ 15.00 |
| 1B | 15⅝ | 5 | 5 | 3 | 2½ | 20.00 |
| 2B | 20¼ | 6 | 6 | 3½ | 2⅝ | 25.00 |
| 3B | 25 | 7⅛ | 7½ | 4 | 3¼ | 33.00 |
| 4B | 29 | 9 | 9 | 5 | 4 | 44.00 |
| 5B | 32 | 10½ | 10½ | 5¾ | 4½ | 55.00 |
| 6B | 37½ | 12 | 12 | 6½ | 5½ | 70 00 |
| 7B | 43 | 14 | 14 | 7½ | 6½ | 90.00 |
| 8B | 48 | 16½ | 16 | 8½ | 7½ | 150.00 |
| 9B | 55 | 18 | 18 | 9½ | 8½ | 200.00 |
| 10B | 68 | 21 | 21 | 12 | 10 | 250.00 |
| 11B | 79 | 24 | 24 | 14 | 12 | 350.00 |



## BUFFALO STEEL PLATE PLANING MILL EXHAUSTERS
### WITH OVERHUNG WHEELS

| Sizes. | Diameter Inlets. | Size of Outlets. | Single Fan Pulleys | | Price of Single Fans. | Double Fan Pulleys. | | Price of Double Fans. |
|---|---|---|---|---|---|---|---|---|
| | | | Diam. | Face. | | Diam. | Face. | |
| 30-in. | 11⅞ | 9½ x 9½ | 6 | 4½ | $55.00 | 8 | 7 | $90.00 |
| 35 " | 13⅞ | 11¼ x 11¼ | 7 | 5½ | 70.00 | 9 | 8 | 100.00 |
| 40 " | 14⅞ | 13⅝ x 13⅝ | 8 | 6 | 90.00 | 10 | 9 | 130.00 |
| 45 " | 17⅞ | 15 x 15 | 9 | 6½ | 115.00 | 11 | 9½ | 170.00 |
| 50 " | 19 | 16¾ x 16¾ | 10 | 7 | 150.00 | 12 | 10 | 210.00 |
| 55 " | 20 | 18 x 18 | 11 | 8 | 185.00 | 13 | 11 | 275.00 |
| 60 " | 22½ | 19¾ x 19¾ | 11½ | 9 | 200.00 | 14 | 12 | 325.00 |
| 70 " | 24⅝ | 22 x 22 | 12 | 10 | 250.00 | | | |
| 80 " | 30½ | 26 x 26 | 14 | 10½ | 300.00 | | | |

Right hand bottom horizontal discharge exhauster is shown in cut. We can furnish them with left hand bottom horizontal discharge, right or left hand top horizontal discharge, up or down blast.

# COTTON BELTING

**SUITABLE FOR ELEVATORS AND ALL KINDS OF OPEN BELT DRIVING PURPOSES**

**Price per Running Foot**

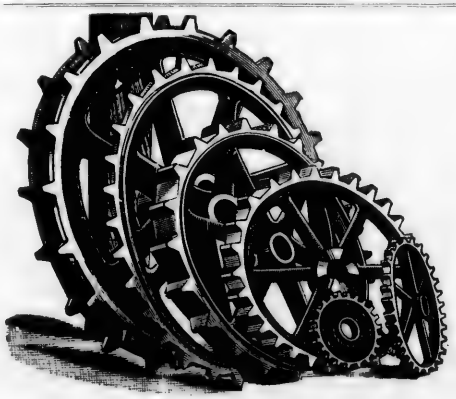



| 2-Ply | | 3-Ply | | 4-Ply | | 5-Ply | | 6-Ply | |
|---|---|---|---|---|---|---|---|---|---|
| Width | Price | Width | Price | Width | Price | Width | Price | Width | Price |
| 1 in. | $0.04 | 1½ in. | $0.07 | 2 in. | $0.12 | 4 in. | $0.34 | 6 in. | $0.46 |
| 1½ " | 0.05 | 2 " | 0.09 | 2½ " | 0 14 | 4½ " | 0.36 | 7 " | 0 51 |
| 2 " | 0.06 | 2½ " | 0.11 | 3 " | 0.16 | 5 " | 0.38 | 8 " | 0.57 |
| 2½ " | 0.07 | 3 " | 0.13 | 3½ " | 0.18 | 5½ " | 0.40 | 9 " | 0.66 |
| 3 " | 0.08 | 3½ " | 0.15 | 4 " | 0.21 | 6 " | 0.42 | 10 " | 0.75 |
| 3½ " | 0.09 | 4 " | 0 16 | 4½ " | 0.24 | 7 " | 0.45 | 12 " | 0.90 |
| 4 " | 0.10 | 4½ " | 0.18 | 5 " | 0.26 | 8 " | 0.50 | 14 " | 1.12 |
| 4½ " | 0.12 | 5 " | 0.20 | 5½ " | 0.28 | 9 " | 0.56 | 16 " | 1.35 |
| 5 " | 0.14 | 5½ " | 0.22 | 6 " | 0.30 | 10 " | 0.63 | 18 " | 1.50 |
| 6 " | 0.18 | 6 " | 0.24 | 7 " | 0.34 | 12 " | 0.75 | 20 " | 1.72 |
| 7 " | 0.20 | 7 " | 0.28 | 8 " | 0.38 | 14 " | 0.94 | 22 " | 1.94 |
| 8 " | 0.22 | 8 " | 0.32 | 9 " | 0.44 | 16 " | 1.12 | 24 " | 2.16 |

## DETACHABLE LINK BELTING



| No. | Price per foot | | Links per foot | Working Strain. | No. | Price per foot. | | Links per foot. | Working Strain. | No. | Price per foot | | Links per foot. | Working Strain. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Plain. | Attachments. | | | | Plain | Attachmen s | | | | Plain. | Attachments. | | |
| **25** | $0.13 | $0.38 | 13.3 | 75 lbs. | **54** | $0.22 | ..... | 8.2 | 475 lbs. | **83** | $0.45 | $0.90 | 3. | 1,200 lbs. |
| **32** | 0.13 | 0.36 | 10.4 | 150 " | **055** | 0.24 | ..... | 7.4 | 525 " | **85** | 0.50 | 0.90 | 3. | 1,300 " |
| **33** | 0.12 | 0.35 | 8.6 | 200 " | **55** | 0.22 | $0.37 | 7.4 | 450 " | **88** | 0.50 | 0.90 | 4.6 | 1,200 " |
| **34** | 0.13 | 0.35 | 8.6 | 225 " | **57** | 0.24 | 0.47 | 5.2 | 600 " | **89** | 0.60 | ..... | 4.6 | 1,300 " |
| **35** | 0.14 | 0.32 | 7.4 | 250 " | **58** | 0.24 | ..... | 7.5 | 550 " | **93** | 0.60 | 1.20 | 3. | 1,600 " |
| **36½** | 0.16 | ..... | 8. | 250 " | **62** | 0.30 | 0.55 | 7.25 | 650 " | **95** | 0.60 | 1.20 | 3. | 1,600 " |
| **37** | 0.16 | 0.38 | 6. | 225 " | **64** | 0.30 | ..... | 6. | 550 " | **101** | 0.60 | 1.20 | 4.5 | 1,600 " |
| **38** | 0.16 | 0.35 | 6. | 250 " | **65** | 0.30 | 0.53 | 5.66 | 550 " | **103** | 0.75 | 1.20 | 4. | 1,800 " |
| **42** | 0.16 | 0.35 | 8.75 | 300 " | **66** | 0.30 | 0.53 | 6. | 700 " | **105** | 0.70 | 1.20 | 2. | 1,500 " |
| **44** | 0.16 | 0.35 | 8.1 | 325 " | **67** | 0.30 | 0.53 | 5.2 | 700 " | **108** | 0 80 | 1.40 | 2.55 | 2,000 " |
| **45** | 0.16 | 0.35 | 7.4 | 350 " | **71½** | 0.35 | ..... | 5.9 | 900 " | **114** | 1.10 | 1.40 | 3.66 | 2,000 " |
| **45½** | 0.16 | 0.35 | 7.4 | 250 " | **72** | 0.35 | ..... | 5.9 | 850 " | **115** | 1.65 | ..... | 3.7 | 2,050 " |
| **47** | 0.18 | 0.38 | 7.4 | 400 " | **72½** | 0.40 | ..... | 7.25 | 925 " | **117** | 1.65 | ..... | 3.7 | 2,150 " |
| **48** | 0.16 | 0.35 | 6. | 375 " | **75** | 0.35 | 0.65 | 4.6 | 750 " | **118** | 1.65 | ..... | 3.7 | 2,200 " |
| **50** | 0.20 | 0.38 | 8.75 | 350 " | **76** | 0.35 | ..... | 5.2 | 625 " | **122** | 1.50 | 2.00 | 2. | 2,200 " |
| **51** | 0.20 | 0.38 | 10.4 | 375 " | **76½** | 0.35 | ..... | 5.8 | 700 " | **124** | 1.30 | 2.00 | 3. | 2,250 " |
| **052** | 0.24 | ..... | 8. | 525 " | **77** | 0.35 | 0.65 | 5.2 | 800 " | **146** | 1.40 | 1.80 | 2. | 2,800 " |
| **52** | 0.25 | 0.38 | 8. | 500 " | **78** | 0.40 | 0.80 | 4.6 | 1,000 " | **160** | 2.00 | 2.50 | 1.2 | 4,000 " |

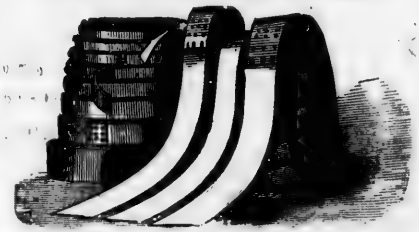


## SPROCKET WHEELS TO FIT CHAIN BELTING

**Prices on Application**

In ordering, give Number of Chain, Number of Teeth, Diameter, Size of Hole, and, if required, Key-Seated or Set-Screwed.

# MACHINE BELTINGS



## LEATHER BELTING

### PRICE LIST

ADOPTED BY THE LEATHER BELTING MANUFACTURERS' ASSOCIATION

| Width. | A List. Per foot | B List. Per foot |
|---|---|---|
| 1 inch | $0.10 | $0.12 |
| 1¼ " | 0.13 | 0.16 |
| 1½ " | 0.17 | 0.20 |
| 1¾ " | 0.20 | 0.24 |
| 2 " | 0.23 | 0.28 |
| 2¼ " | 0.26 | 0.32 |
| 2½ " | 0.30 | 0.36 |
| 2¾ " | 0.33 | 0.40 |
| 3 " | 0.36 | 0.44 |
| 3½ " | 0.43 | 0.52 |
| 4 " | 0.50 | 0.60 |
| 4½ " | 0.56 | 0.68 |
| 5 " | 0.63 | 0.76 |
| 5½ " | 0.70 | 0.84 |
| 6 " | 0.76 | 0.92 |
| 6½ " | 0.83 | 1.00 |
| 7 " | 0 90 | 1.08 |
| 8 " | 1.02 | 1.24 |
| 9 " | 1.15 | 1.40 |
| 10 " | 1.29 | 1.56 |
| 11 " | 1.42 | 1.72 |
| 12 " | 1.55 | 1.88 |
| 14 " | 1.82 | 2.20 |
| 16 " | 2.14 | 2 60 |
| 18 " | 2.49 | 3.00 |
| 20 " | 2.84 | 3.40 |
| 22 " | 3.20 | 3.80 |
| 24 " | 3.54 | 4.20 |
| 26 " | 3.92 | 4.00 |
| 28 inch | $4.30 | $5.00 |
| 30 " | 4.64 | 5.50 |
| 32 " | 5.00 | 6.00 |
| 34 " | 5.35 | 6.50 |
| 36 " | 5.70 | 7.00 |
| 38 " | 6.05 | 7.40 |
| 40 " | 6.40 | 7.80 |
| 44 " | 7.10 | 8.60 |
| 48 " | 7.80 | 9.40 |

### ROUND

SOLID

| | |
|---|---|
| ⅛ inch | 5 cts. |
| 3/16 " | 7 cts. |
| ¼ " | 10 cts. |
| 5/16 " | 14 cts. |
| ⅜ " | 18 cts. |

TWIST

| | |
|---|---|
| ⅛ inch | 6 cts. |
| 3/16 " | 10 cts. |
| ¼ " | 14 cts. |
| 5/16 " | 18 cts. |
| ⅜ " | 22 cts. |
| ½ " | 30 cts. |
| ⅝ " | 36 cts. |
| ¾ " | 46 cts. |
| ⅞ " | 60 cts. |
| 1 " | 72 cts. |

Double Belting twice the price of Single.

In ordering, state where Bands are to run. We do not guarantee belts run on quarter turn, unless they are specially made for that purpose.

### DISCOUNT

AMERICAN

| | | |
|---|---|---|
| Standard. .... | Regular. .... | Extra Heavy. .... % |
| Light Double. .... | Dynamo Double. .... | Regular Double. .... % |

CANADIAN

| | | | |
|---|---|---|---|
| Agricultural. .... | No. 1. .... | Standard. .... | Extra. .... % |

## RUBBER BELTING

| Width | 2-Ply. Per foot | 3-Ply. Per foot | 4-Ply. Per foot | 5-Ply. Per foot | 6-Ply. Per foot |
|---|---|---|---|---|---|
| 1 inch | $0.07 | $0.09 | $0.11 | ..... | ..... |
| 1¼ " | 0.09 | 0.11 | 0.13 | ..... | ..... |
| 1½ " | 0.11 | 0.13 | 0.15 | $0.19 | ..... |
| 1¾ " | 0.13 | 0.15 | 0.17 | 0.21 | ..... |
| 2 " | 0.15 | 0.17 | 0.21 | 0.26 | $0.31 |
| 2½ " | 0.18 | 0.22 | 0.26 | 0.33 | 0.39 |
| 3 " | 0.22 | 0.26 | 0.31 | 0.39 | 0.47 |
| 3½ " | 0.26 | 0.30 | 0.37 | 0.46 | 0.56 |
| 4 " | 0.30 | 0.34 | 0.42 | 0.53 | 0.63 |
| 4½ " | 0.33 | 0.39 | 0.47 | 0.59 | 0.71 |
| 5 " | 0.36 | 0.43 | 0.52 | 0.65 | 0.78 |
| 6 " | 0.43 | 0.52 | 0.62 | 0.78 | 0.93 |
| 7 " | 0.51 | 0.60 | 0.73 | 0.91 | 1.10 |
| 8 " | 0.59 | 0.70 | 0.84 | 1.05 | 1.26 |
| 9 " | 0.67 | 0.80 | 0.95 | 1.18 | 1.42 |
| 10 " | 0.75 | 0.90 | 1.07 | 1.33 | 1.60 |
| 11 " | 0.83 | 1.00 | 1.18 | 1.47 | 1.77 |
| 12 " | 0.91 | 1.08 | 1.30 | 1.62 | 1.95 |
| 13 " | 1.00 | 1.18 | 1.42 | 1.77 | 2.13 |
| 14 " | 1.08 | 1.28 | 1.54 | 1.92 | 2.31 |
| 15 " | 1.16 | 1.38 | 1.66 | 2.07 | 2.49 |
| 16 " | 1.25 | 1.50 | 1.78 | 2.22 | 2.67 |
| 18 " | 1.41 | 1.70 | 2.02 | 2.52 | 3.03 |
| 20 " | 1 58 | 1.90 | 2.26 | 2.82 | 3.39 |
| 22 " | 1.76 | 2.12 | 2.52 | 3.15 | 3.78 |
| 24 " | 1.96 | 2.36 | 2.80 | 3.50 | 4.20 |
| 26 " | 2.18 | 2 60 | 3.08 | 3.85 | 4.62 |
| 28 " | 2.42 | 2.84 | 3.36 | 4.20 | 5.04 |
| 30 " | ..... | ..... | 3.64 | 4.55 | 5.46 |
| 32 " | ..... | ..... | 3.92 | 4.90 | 5.88 |
| 34 " | ..... | ..... | 4.20 | 5.25 | 6.30 |
| 36 " | ..... | ..... | 4.48 | 5.60 | 6.72 |
| 38 " | ..... | ..... | 4.76 | 5.95 | 7.14 |
| 40 " | ..... | ..... | 5.04 | 6.30 | 7.56 |
| 42 " | ..... | ..... | 5.32 | 6.65 | 7.98 |
| 44 " | ..... | ..... | 5.60 | 7.00 | 8.40 |
| 46 " | ..... | ..... | 5.88 | 7.35 | 8.82 |
| 48 " | ..... | ..... | 6.16 | 7.70 | 9.24 |

### DISCOUNT

| | | |
|---|---|---|
| Monarch. .... | Red Strip. .... | Lion. .... % |

Endless Belts made to order. 3 feet extra charged for splice.

## LACE LEATHER

IN SIDES

| | |
|---|---|
| Canadian Tanned ..... per lb. | $0.90 |
| Cocheco Raw Hide ..... per square foot | 0.40 |

Side runs from 10 to 18 square feet.

## CUT BELT LACING

| Width | ¼ | ⅜ | ½ inch. |
|---|---|---|---|
| Canadian ..... per lb. | $0.90 | 0.90 | 0.90 |
| Cocheco Raw Hide ..... per 100 feet | 0.85 | 1.25 | 1.75 |

One hundred feet in a package.

# WOOD SPLIT PULLEYS



| DIAMETER Inches | WIDTH OF FACE—Inches. | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |
| 4 | $2.00 | $ 2.10 | $ 2.20 | $ 2.40 | $ 2.55 | $ 2.70 | $ 2.85 | $ 3.00 | | | | | | | |
| 5 | 2.10 | 2.20 | 2.35 | 2.55 | 2.70 | 2.85 | 3.00 | 3.15 | | | | | | | |
| 6 | 2.20 | 2.30 | 2.50 | 2.70 | 2.85 | 3.00 | 3.15 | 3.30 | | | | | | | |
| 7 | 2.30 | 2.40 | 2.65 | 2.85 | 3 00 | 3.15 | 3.30 | 3.45 | | | | | | | |
| 8 | 2.40 | 2.55 | 2.80 | 3.00 | 3.15 | 3.30 | 3.45 | 3.60 | | | | | | | |
| 9 | 2.50 | 2.65 | 2.90 | 3.15 | 3.28 | 3.40 | | | | | | | | | |
| 10 | 2.60 | 2.75 | 3.00 | 3.25 | 3.40 | 3 55 | 3.72 | 3.90 | | | | | | | |
| 11 | 2.70 | 2.85 | 3.10 | 3.35 | 3.53 | 3.70 | 3.90 | 4.10 | | | | | | | |
| 12 | 2.80 | 2.95 | 3.20 | 3.55 | 3.70 | 3.85 | 4.08 | 4.30 | $ 5.10 | | | | | | |
| 13 | 2.90 | 3.10 | 3.40 | 3.75 | 4.00 | 4.25 | 4.53 | 4.80 | 5.00 | | | | | | |
| 14 | 3.00 | 3.25 | 3.65 | 4.10 | 4.40 | 4.70 | 5.02 | 5.35 | 6.00 | $ 6.60 | | | | | |
| 15 | 3.10 | 3.45 | 3.85 | 4.35 | 4.75 | 5.10 | 5.48 | 5.85 | 6 50 | 7.20 | | | | | |
| 16 | 3.30 | 3.65 | 4.05 | 4.60 | 5.05 | 5.50 | 5.90 | 6.30 | 7.00 | 7.70 | | | | | |
| 17 | 3.50 | 3.85 | 4.25 | 4.85 | 5 35 | 5.85 | 6.30 | 6.70 | 7.50 | 8.25 | | | | | |
| 18 | 3.70 | 4.05 | 4.55 | 5.10 | 5.65 | 6.20 | 6.65 | 7.10 | 8.00 | 9.00 | $10.70 | | | | |
| 19 | | 4.25 | 4.80 | 5.50 | 6.13 | 6.75 | 7.15 | 7.50 | 8.00 | 9.80 | 11.70 | | | | |
| 20 | | 4.45 | 5.20 | 6 00 | 6.60 | 7.15 | 7 60 | 8.00 | 9.50 | 11.00 | 12.60 | | | | |
| 21 | | 4 70 | 5.00 | 6 40 | 6 90 | 7.50 | 8.10 | 8.65 | 10.40 | 12.00 | 13.70 | | | | |
| 22 | | 4.95 | 5.90 | 6.85 | 7.45 | 8.00 | 8.70 | 9.40 | 11.20 | 13.00 | 14.20 | | | | |
| 23 | | 5.20 | 6.15 | 7.05 | 7 70 | 8.40 | 9.20 | 9.95 | 12.00 | 14.00 | 16.00 | | | | |
| 24 | | 5.40 | 6.35 | 7.30 | 8.05 | 8.80 | 9.65 | 10 45 | 12.70 | 15.10 | 17.50 | | | | |
| 25 | | 5.80 | 6.65 | 7 60 | 8.40 | 9.20 | 9.85 | 10.90 | 13.40 | 16.25 | 19.10 | | | | |
| 26 | | 6.35 | 7.00 | 7.95 | 8.80 | 9.60 | 10.05 | 11.40 | 14.20 | 17.50 | 20.80 | $24.10 | $31.50 | $35.50 | $40.00 |
| 27 | | 6.78 | 7.40 | 8.27 | 9.13 | 9.95 | 10.63 | 11.75 | 14.72 | 18.25 | 21.90 | 25.50 | 32.25 | 36.25 | 40.75 |
| 28 | | 7.20 | 7.80 | 8.60 | 9.45 | 10.30 | 11.20 | 12.10 | 15.25 | 19.00 | 23.00 | 26 90 | 33.00 | 37.00 | 41.50 |
| 29 | | 7.60 | 8.20 | 9.00 | 9.95 | 10 90 | 11.80 | 12 67 | 15.87 | 20.00 | 24.20 | 28.45 | 33.75 | 37.62 | 41 87 |
| 30 | | 8.00 | 8.60 | 9.40 | 10.45 | 11.50 | 12.40 | 13.25 | 16.50 | 21.00 | 25.40 | 30.00 | 34.50 | 38.25 | 42.25 |
| 31 | | 8.40 | 9.00 | 9.85 | 11.02 | 12.20 | 13 17 | 14.13 | 17.20 | 21.87 | 26.57 | 31.12 | 35.37 | 39.25 | 43.25 |
| 32 | | 8.80 | 9.40 | 10.30 | 11.60 | 12.90 | 13.95 | 15.00 | 17.90 | 22.75 | 27.75 | 32.25 | 36.25 | 40.25 | 44.25 |
| 33 | | 9.20 | 9.95 | 10.90 | 12.30 | 13.70 | 14.85 | 16.00 | 18.95 | 23.62 | 28.87 | 33.37 | 37.00 | 41.50 | 45.50 |
| 34 | | 9.60 | 10.50 | 11.50 | 13.00 | 14 50 | 15.75 | 17.00 | 20 00 | 24.50 | 30.00 | 34.50 | 38.75 | 42.75 | 46.75 |
| 35 | | 10.10 | 11.20 | 12.25 | 13.75 | 15.25 | 16.65 | 18.05 | 21.25 | 25.50 | 31.20 | 35.75 | 40.12 | 44.12 | 48.12 |
| 36 | | 10.60 | 11.90 | 13.00 | 14.50 | 16.00 | 17.55 | 19.10 | 22.50 | 26.50 | 32.40 | 37.00 | 41.50 | 45.50 | 49.50 |
| 38 | | 13.00 | 13.75 | 14.00 | 16.05 | 17.60 | 19.15 | 20.70 | 24.75 | 28.50 | 34.50 | 39.25 | 45.00 | 49.00 | 54.00 |
| 40 | | 14.00 | 14.50 | 16.00 | 17.50 | 19.00 | 20.75 | 22.50 | 26.75 | 31.00 | 36.25 | 41.50 | 48.00 | 52.50 | 58.00 |
| 42 | | 15.50 | 16.05 | 17.50 | 19.50 | 21.50 | 23.25 | 25,00 | 29,00 | 33.50 | 38,50 | 43.75 | 51.00 | 56.00 | 63.00 |
| 44 | | 17.00 | 17.50 | 19.50 | 21.65 | 23.75 | 25.65 | 27,50 | 31.50 | 36.00 | 40.75 | 46.00 | 54.00 | 59.00 | 67.00 |
| 46 | | 19.00 | 19.50 | 22.00 | 24.00 | 26.00 | 28.00 | 30,00 | 33.50 | 38 50 | 43.00 | 48.00 | 58.00 | 64.00 | 72.00 |
| 48 | | 21.00 | 22.00 | 24.50 | 26.25 | 28.00 | 30.50 | 32.50 | 36.00 | 41.00 | 45.00 | 50.00 | 62.00 | 71.50 | 80.00 |
| 50 | | | | 27.25 | 29.50 | 31.50 | 33.50 | 35.50 | 39.00 | 44.00 | 50.00 | 56.00 | 65.00 | 74.50 | 84 50 |
| 52 | | | | 31.00 | 32.50 | 34.00 | 36.00 | 38.00 | 42.00 | 46.00 | 52.50 | 60.00 | 68.00 | 77 00 | 86.25 |
| 54 | | | | 33.50 | 35 50 | 37.50 | 39.25 | 41.00 | 45.00 | 49.50 | 55.50 | 64.50 | 73 50 | 83.00 | 92.50 |
| 56 | | | | 37.00 | 38.75 | 40.50 | 42 50 | 44.50 | 48.50 | 53 50 | 60 00 | 69.50 | 84.00 | 93.25 | 102 50 |
| 58 | | | | 40.00 | 41.50 | 43.50 | 46.00 | 47.50 | 52.25 | 57.75 | 64.25 | 73.75 | 87.50 | 95.25 | 104.50 |
| 60 | | | | 42.50 | 44.50 | 47.00 | 49.25 | 51.50 | 56.00 | 62.00 | 68.50 | 78.00 | 91.00 | 101.00 | 111.00 |

# BELT TOOLS

## COMBINED CUTTER, PUNCH AND AWL



No. **15**—Length 5 inches, packed one in a box ..... per doz. **$13.50**



### CUTTERS FOR BLAKE'S BELT STUDS

Large Cutters for Rubber Belts..... .....each **$1.95**
Small " " Leather " ..... " **1.45**



### AWL AND PLIERS COMBINED FOR BLAKE'S BELT STUDS

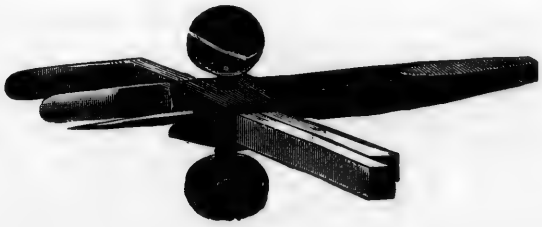
Each..... **$6.65**

## ELLIOTT LACE CUTTERS



Price ..... per doz. **7.25**

## WASHER CUTTERS



No **C719** ..... per doz. **14.20**

# BELT PUNCHES

THOS. ADAMS' BEST CAST STEEL



FULL SIZE OF HOLES

| Size Nos.... | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Round Nos. | | | | | | 1 to 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Per dozen | | | | | | $1.65 | 1.85 | 2.10 | 2.50 | 2.85 | 3.50 | 3.95 |
| Oval Nos. | | | 22 | | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| Per dozen | | | $2.25 | | 2.40 | 3.10 | 3.50 | 3.90 | 4.35 | 4.75 | 5.35 | 6.20 |



No. 910

| Size Nos. | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|
| No. 910—Boker's Round, per dozen | $1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.55 | 1.85 |

## OPEN BELT PUNCHES



| Nos. | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|
| Per dozen | $2.20 | 2.20 | 2.50 | 2.50 | 3.10 | 3.10 |

## SPRING BELT PUNCHES



Nos. 10 and 12

No. 10—With Single Tube ..... per doz. $4.15
" 12— " 2 Extra " ..... " 7.05
" 3785—Boker's Spring Punches, with Single Tube ..... " 2.85

No. 3785 Punch made from Stamped Sheet Steel.

## REVOLVING SPRING BELT PUNCH



No. 24

No. 24 ..... per doz. $11.70
Extra Tubes, assorted for Nos. 10 and 12 ..... " 1.30
" " " " No. 24 ..... " 1.60

Spring Belt Punches, half dozen in a box; others, one dozen.

# TICKET PUNCHES



No. 1

No. 1—Conductors' Punch, Nickel-Plated, assorted Dies ..... per doz. $30.00



No. 3

No. 3—Conductors' Punch, Nickel-Plated, assorted Dies ..... per doz. 22.50



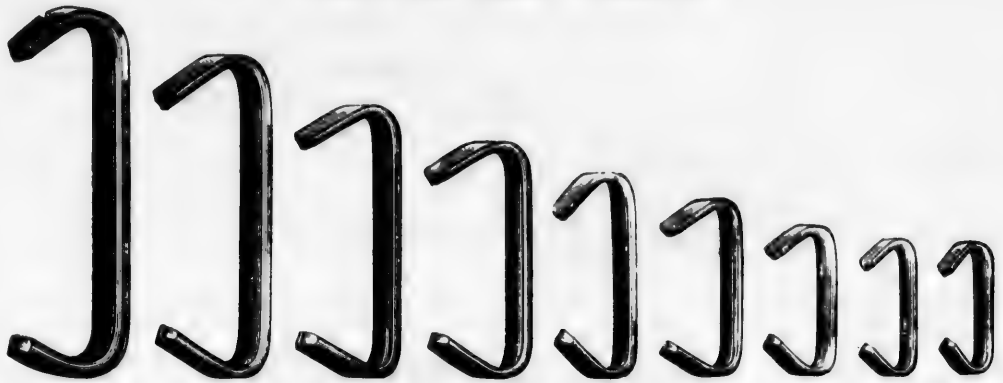
No. 6

No. 6—Ticket Punches, Polished, assorted Dies ..... per doz. 8.75
" 6½- " " " " " ..... " 9.40
" 16½- " " Nickel-Plated, assorted Dies ..... " 10.65

The Nos. 6½ and 16½ Punches are the same as No. 6, with the exception of the spring, which is similar to that on the No. 1 Conductors' Punch.

Half-dozen in a box.

# POINTED BELT HOOKS



No. 4 No. 5 No. 6 No. 7 No. 8 No. 9 No. 10 No. 11 No. 12

FULL SIZE

| Nos. | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|
| Price, per 1,000 | $6.40 | 5.60 | 4.40 | 3.40 | 2.40 | 2.00 | 1.60 | 1.40 | 1.20 | 1.15 |

Nos. 3, 4 and 5, 100 in a box; Nos. 6, 7 and 8, 200; Nos. 9 and 10, 300; Nos. 11 and 12, 500.



## BLAKE'S PATENT BELT STUDS

| Nos. | 00 | 0 | 1 | 2 | 3 |
|---|---|---|---|---|---|
| Per 100 | $2.50 | 2.00 | 1.65 | 1.25 | 0.90 |

100 in a box, cuts full size.

## BRISTOL'S PATENT STEEL WIRE BELT LACING



READY TO APPLY FINISHED JOINT

### FOR LEATHER BELTS

| | | | |
|---|---|---|---|
| No. 00—For Split Leather and Extra Light Belts from $\frac{1}{16}$ to $\frac{1}{8}$ inch thick | per 100 inches | | $1.00 |
| " 0— " " " " " " " $\frac{1}{8}$ to $\frac{3}{16}$ " | " | " | 1.00 |
| " 1—For Ordinary Single Leather Belts from $\frac{3}{16}$ to $\frac{1}{4}$ inch thick | " | " | 1.50 |
| " 2—For Extra Heavy and Wide Single Belts from $\frac{1}{4}$ to $\frac{5}{16}$ inch thick | " | " | 2.00 |
| " 3—For Double Belts $\frac{5}{16}$ to $\frac{3}{8}$ inch thick | " | " | 2.50 |

### FOR RUBBER, COTTON AND WOVEN BELTS

| | | | |
|---|---|---|---|
| No. 10—For 2 ply Rubber and Cotton Belts from $\frac{3}{8}$ to $\frac{7}{16}$ inch thick | per 100 inches | | $1.10 |
| " 11— " 3 " " " " " " $\frac{7}{16}$ " $\frac{1}{2}$ " | " | " | 1.65 |
| " 12— " 4 " " " " " " $\frac{1}{2}$ " $\frac{9}{16}$ " | " | " | 2.20 |
| " 13— " 5 " " " " " " $\frac{9}{16}$ " $\frac{5}{8}$ " | " | " | 2.75 |

Packed 100 inches in a box, assorted lengths.

## COMPOSITION WIRE BELT LACING

| | | | |
|---|---|---|---|
| No. 1—For Belts 2 to 6 inches wide, 50 ft. in a package | per 100 feet | | $2.00 |
| " 2— " " 6 " 20 " 50 " " | " | " | 2.00 |
| Markers for Lace Holes | per dozen | | 4.65 |

# THE BUFFALO BELT FASTENER

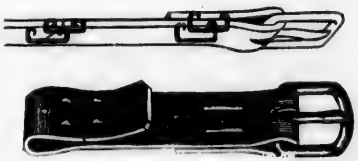



| | | | |
|---|---|---|---|
| No. 6— | 250 in a box | per 1,000 | $5.00 |
| " 7— | 250 " | " | 4.00 |
| " 8— | 500 " | " | 3.50 |
| " 10—1,000 | " | " | 2.50 |
| " 13—1,000 | " | " | 2.00 |
| " 15—1,000 | " | " | 1.50 |

## RAPID HARNESS MENDERS



FULL SIZE CUTS



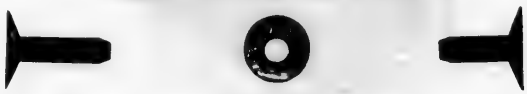
CUT SHOWING MENDER IN USE




Rapid Harness Mender..... per dozen boxes $2.70

One gross assorted sizes in a box, 2 dozen boxes in a case.

## BELT RIVETS AND BURS



### COPPER RIVETS AND BURS

| Length..... | ¼ | 5/16 | ⅜ | 7/16 | ½ | 9/16 | Nos..... | 7 | 8 | 10 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| " ..... | ⅝ | ¾ | ⅞ | 1 | 1¼ | 1½ | Copper Rivets..per lb. | $0.49 | 0.50 | 0.54 | 0.58 |
| | | | | | | | Copper Burs... " | 0.49 | 0.50 | 0.54 | 0.58 |

In one pound boxes.

Copper Rivets and Burs in half pound boxes, 10 boxes in a carton, assorted, No. 8 x ⅜, ½, ⅝ and ¾ inch, at an advance of 1 cent per pound, net.

**Approximate Number of Copper Belt Rivets and Burs in a pound.**

| Rivets..... | ¼ | 5/16 | ⅜ | 7/16 | ½ | 9/16 | ⅝ | ¾ | ⅞ | 1 | 1⅛ | 1¼ | Burs. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. 7..... | 262 | 214 | 186 | 171 | 158 | 152 | 135 | 119 | 102 | 92 | 89 | 79 | 316 |
| " 8..... | 281 | 260 | 238 | 208 | 192 | 175 | 155 | 129 | 120 | 108 | 96 | 85 | 396 |
| " 10..... | 472 | 390 | 360 | 320 | 293 | 269 | 248 | 210 | 180 | 163 | .... | .... | 965 |
| " 12..... | 530 | 468 | 415 | 370 | 340 | 302 | 287 | 243 | 222 | .... | .... | .... | 1045 |

### IRON BELT RIVETS, COPPERED OR TINNED

In one pound boxes.

| Length..... ..... | ¼ | 5/16 | ⅜ | 7/16 | ½ | ⅝ | ¾ | ⅞ | 1 | 1⅛ | 1¼ inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. 8.....per pound | $0.25 | 0.25 | 0.24 | 0.23 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 |

### ANNEALED IRON BURS, BLACK OR TINNED

In one pound boxes.

| Nos..... | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 12 |
|---|---|---|---|---|---|---|---|---|---|
| Black .....per pound | $0.25 | 0.26 | 0.27 | 0.30 | 0.32 | 0.33 | 0.34 | 0.35 | 0.42 |
| Coppered or Tinned.... " | 0.31 | 0.32 | 0.33 | 0.36 | 0.38 | 0.39 | 0.40 | 0.41 | 0.48 |

# SLOTTED CLINCH RIVETS

**COPPERED**

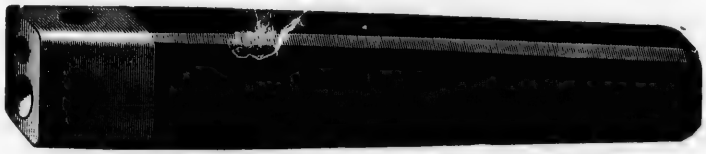



These Rivets can be used for the repair of Harness, Halters, Belts, Bags, Shoes and Straps; with each box a Rivet Set or Holder is included.

No. 9—Assorted, ¼ to ½ inch..... .....per carton $1.80

100 Rivets in a box, 12 boxes in a carton.

## CAST STEEL RIVET SETS



FULL SIZE OUT OF No. 3




| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Nos..... | 00 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Suitable for Copper Belt Rivets, Nos..... | | | | 7 | 8 | 9 | 10 | 12 | | |
| Per dozen..... | $5.40 | 5 40 | 4.55 | 4.55 | 3.60 | 3.60 | 2.70 | 2.70 | 2.30 | 2.30 |

Half-dozen in a box.

# STEAM SHEET PACKING



## RUBBER PACKING

Made with cloth insertion, cloth on one side or cloth on both sides. One ply of cloth to every $\frac{1}{64}$ inch thickness.

| Thickness | $\frac{1}{64}$ | $\frac{3}{32}$ | $\frac{1}{16}$ | $\frac{3}{32}$ | $\frac{1}{8}$ | $\frac{5}{32}$ | $\frac{3}{16}$ | $\frac{1}{4}$ inch. |
|---|---|---|---|---|---|---|---|---|
| 1-Ply ..... per lb. | $0.70 | 0.65 | 0.60 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 |
| 2-Ply ..... " | .... | .... | 0.63 | 0.58 | 0.55 | 0.55 | 0.55 | 0.55 |
| 3-Ply ..... " | .... | .... | 0.66 | 0.61 | 0.58 | 0.58 | 0.55 | 0.55 |
| 4-Ply ..... " | .... | .... | .... | .... | 0.61 | 0.61 | 0.58 | 0.55 |

| | | |
|---|---|---|
| Pure Gum Sheet Packing, without Cloth | per lb. | $1.40 |
| Wire Insertion Sheet Packing, Plain Rubber, $\frac{1}{16}$ inch and thicker | " | 0.80 |
| Plumbago " " Self Vulcanizing, $\frac{1}{16}$ or $\frac{1}{8}$ inch thick | " | 0.70 |
| Rainbow " " $\frac{1}{16}$, $\frac{1}{32}$, $\frac{1}{64}$ or $\frac{1}{128}$ inch thick | " | 1.00 |
| Asbestos " " $\frac{1}{16}$ to $\frac{3}{8}$ inch thick | " | 0.10 |

Asbestos Sheet Packing is kept in stock 40 x 40 inch, and weighs approximately $\frac{1}{16}$ 2 lbs., [illegible] lbs., $\frac{1}{8}$ 5 lbs., $\frac{1}{4}$ 6$\frac{1}{2}$ lbs., $\frac{5}{16}$ 8$\frac{1}{2}$ lbs., $\frac{3}{8}$ 11 lbs., $\frac{1}{2}$ inch 16$\frac{1}{2}$ lbs. per sheet.

## GASKETS AND RINGS

### CUT TO ORDER



| | | |
|---|---|---|
| Fibrous, $\frac{1}{8}$ inch thick or less | per lb. | $0.90 |
| " $\frac{1}{16}$ " " and upwards | " | 0.80 |
| Cloth Insertion, $\frac{1}{16}$ inch thick or less | " | 1.25 |
| " $\frac{1}{8}$ " " and upwards | " | 1.00 |
| Pure Gum, any size and thickness | " | 1.50 |
| Plumbago Packing, any size and thickness | " | 1.00 |

## ECLIPSE SECTIONAL RAINBOW GASKETS

Diameter, $\frac{1}{2}$, $\frac{3}{4}$, $\frac{1}{8}$, $\frac{3}{4}$ inch, in boxes 5 to 6 lbs. ..... per lb. $1.00

The Eclipse Gasket is composed of the celebrated Rainbow Packing Compound, can be readily fitted to any size man or hand hole plate in use. Explicit directions with each box.

## PISTON PACKING



TUCK'S ROUND



SQUARE DUCK



RUBBER BACK

| | | |
|---|---|---|
| Tuck's Round or Square Duck, $\frac{1}{2}$ to 2 inch | per lb. | $0.85 |
| Rubber Back Packing, $\frac{1}{2}$ to 2 inch | " | 1.00 |
| Square Flax " $\frac{1}{2}$ to 1 " | " | 0.45 |
| Soapstone " $\frac{1}{2}$ to 1 " diameter | " | 0.20 |
| Plumbago " $\frac{1}{2}$ to 1 " " | " | 0.90 |
| Asbestos " $\frac{1}{2}$ to 1 " " | " | 0.40 |
| " " Wick in $\frac{1}{4}$ lb. balls | " | 0.40 |
| Cotton " " in balls | " | 0.28 |
| Jute " in coils | " | 0.15 |
| Russian Hemp " " | " | 0.18 |
| Italian " " No. 1, in coils | " | 0.30 |
| " " " " 2 " | " | 0.25 |

In coils about 50 lbs.

# SPIRAL PISTON PACKING



ELASTIC RING


SPIRAL



SECTIONAL RING

## GUTTAPERCH BRAND

Spiral Packing, 12 feet in a box, $\frac{1}{16}$ to 1 in. kept in stock (larger size to 2 in. to order) ..... per lb. $1.20
Elastic and Sectional Ring Packing ..... " 1.20

## GARLOCK PATENT PACKING

Garlock's Spiral Packing, 12 feet in a box ..... per lb. 1.20
Garlock's Elastic and Sectional Ring Packing ..... " 1.20

When ordering Elastic or Sectional Ring Packing, give exact diameter of piston, valve, or cut-off rod to be packed, also the diameter and depth of the stuffing box, state number of rings wanted and whether "Elastic" or "Sectional Rings" are preferred.

**Approximate Weight of Spiral Packing in a Box of Twelve Feet**

| Size | $\frac{3}{16}$ | $\frac{1}{4}$ | $\frac{5}{16}$ | $\frac{3}{8}$ | $\frac{7}{16}$ | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{7}{8}$ | in. |
|---|---|---|---|---|---|---|---|---|---|---|
| Weighs | $\frac{1}{2}$ | $\frac{3}{4}$ | 1 | $1\frac{1}{4}$ | $1\frac{3}{4}$ | 2 | $3\frac{1}{2}$ | $4\frac{3}{4}$ | $6\frac{1}{2}$ | $8\frac{1}{4}$ lb. |

## MILLBOARD

English Millboard, 48 x 34, $\frac{1}{8}$ and $\frac{3}{16}$ thick ..... per 100 lbs. $ 8.25
American " 44 x 34, " " ..... " 11.65

## COTTON WASTE




In 100 and 500 lb. bales.

Extra M. C. White Cotton Waste ..... per lb. $0.12
No. 1 " " " " ..... " 0.11
Extra " Colored " " ..... " 0.08

## STEEL WOOL

Consists of finely shredded steel, and is suitable for "rubbing down" varnish or paint on fine woods. It is soft, pliable and easy to handle.

| Nos. | 0 | 1 | 3 |
|---|---|---|---|
| For | Polishing. | Rubbing. | Scouring. |
| Per lb | $0.75 | 0.60 | 0.60 |

## OAKUM

In 50 lb. bales.

U.S. Navy Oakum ..... per 100 lbs. $ 9.50
" " Spun ..... " 11.50
Plumbers' " ..... " 5.50
Spun Caulking Cotton ..... " 15.00

# RUBBER HOSE





KINKPROOF

50 feet in a roll.

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Interior diameter | | ½ | ¾ | 1 | 1¼ | 1½ | 1¾ | 2 | 2¼ | 2½ | 3 | 4 in. |
| Conducting, or 2-ply | per ft. | $0.20 | 0.25 | 0.33 | 0.42 | 0.50 | 0.58 | 0.66 | 0.75 | 0.83 | 0.99 | 1.32 |
| Hydrant, or 3-ply | " | 0.25 | 0.30 | 0.40 | 0.50 | 0.60 | 0.70 | 0.80 | 0.90 | 1.00 | 1.20 | 1.60 |
| Engine, or 4-ply | " | 0.30 | 0.37 | 0.50 | 0.62 | 0.75 | 0.87 | 1.00 | 1.12 | 1.25 | 1.50 | 2.00 |

These list prices apply to all grades of Rubber Water Hose, the discounts varying according to quality.

## COTTON GARDEN HOSE

½, ¾ and 1 inch sizes, same list as 3-ply Rubber Hose.

## RUBBER LINED COTTON HOSE

### FOR FACTORIES, MILLS, ETC.

| | | | | | |
|---|---|---|---|---|---|
| Size | 1¼ | 1½ | 2 | 2¼ | 2½ in. |
| Per foot | $0.48 | 0.53 | 0.65 | 0.70 | 0.75 |

## STEAM HOSE

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Interior diameter | ½ | ¾ | 1 | 1¼ | 1½ | 1¾ | 2 | 2½ | 3 | in. |
| Three-ply, for 20 lbs. of steam per ft. | $0.43 | 0.51 | 0.67 | 0.85 | 1.02 | 1.18 | 1.34 | 1.66 | 2.00 | |
| Four-ply, for 35 " " " | 0.51 | 0.67 | 0.83 | 1.04 | 1.25 | 1.45 | 1.66 | 2.08 | 2.80 | |
| Five-ply, for 50 " " " | 0.63 | 0.83 | 1.03 | 1.30 | 1.56 | 1.81 | 2.07 | 2.60 | 3.50 | |
| Six-ply, for 75 " " " | 0.76 | 1.00 | 1.24 | 1.56 | 1.87 | 2.17 | 2.49 | 3.12 | 4.20 | |

Marlin Wound Steam Hose, 10 per cent. advance on above list prices.
Wire " " " 12 " " " " "

Steam Hose, as ordinarily made, is Vulcanized at a temperature of 240 degrees. Therefore, whenever it is subjected to a continuous heat greater than 240 degrees the rubber is hardened and the hose will deteriorate.

## SUCTION, BREWERS' AND FINE PARA HOSE

### SUPPLIED TO ORDER

## RUBBER TUBING

### PURE WHITE

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Size, inside diameter | 1/8 | 3/16 | ¼ | 5/16 | ⅜ | ½ | ⅝ | ¾ | 1 in. |
| Per foot | $0.08 | 0.12 | 0.16 | 0.18 | 0.20 | 0.25 | 0.30 | 0.35 | 0.45 |

Put up in boxes containing 50 or 100 feet.

## CLOTH INSERTION TUBING

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Size, inside diameter | 1/8 | 3/16 | ¼ | 5/16 | ⅜ | ½ | ⅝ | ¾ | 1 in. |
| Per foot | $0.10 | 0.14 | 0.18 | 0.20 | 0.23 | 0.28 | 0.33 | 0.38 | 0.50 |

Made usually in 12 feet lengths.

## RUBBER SPRINGS OR BUMPERS



### FLAT

| | | | | |
|---|---|---|---|---|
| No. 1—1 | in. high, 2 | in. thick | per lb. | $0 35 |
| " 2—3/4 | " 1¼ | " | " | 0.35 |
| " 3—3½ | " 1½ | " | " | 0.35 |
| " 4—3¼ | " 1¼ | " | " | 0.35 |

### ROUND

Diameter, 2 in. to 6 in., thickness, 1 in. to 3 in. per lb. 0.60

# HOSE NOZZLES



MAGIC



PLAIN, No. 1772

| Size of Hose Coupling | ¾ | 1 | 1¼ | 1½ | 2 | 2½ inch. |
|---|---|---|---|---|---|---|
| Short Pattern.....Length | 7 | 8 | 8½ | 9 | 11 | 16 " |
| Long " ..... " | 8 | 10 | 12 | 14 | 16 | 20 " |
| Diameter of Openings..... | 5/16 | ½ | 5/8 | 7/8 | 1 | 1¼ " |
| Short Pattern.....each | $0.65 | 0.85 | 1.65 | 2.10 | 3.15 | 6.25 |
| Long " ..... " | 0.85 | 1 25 | 2.50 | 3.00 | 5 00 | 8 35 |

COMBINED STREAM OR SPRAY

| | | |
|---|---|---|
| Magic, Polished, for ½ or ¾ inch Hose Coupling | each | $1.00 |
| " Nickel-plated, " " " " | " | 1.17 |
| Gem, Polished, " " " " | " | 1.00 |
| " Nickel-plated, " " " " | " | 1.25 |



GEM

## HOSE COUPLINGS



| Size | ½ | ¾ | 1 | 1¼ | 1½ | 2 | 2½ | 3 inch |
|---|---|---|---|---|---|---|---|---|
| Per dozen | $2.40 | 2.40 | 4.40 | 10.00 | 14.00 | 24.00 | 48.00 | 76.00 |

Hose Couplings, 1¼ and larger, are fitted with lugs.




## SHERMAN HOSE CLAMP

BRASS

| Size | ⅝ | ½ | ¾ | 1 inch. |
|---|---|---|---|---|
| Per dozen | $0.60 | 0.60 | 0.60 | 2.00 |

## HOSE MENDERS



SHERMAN'S SEAMLESS BRASS

| Size | ½ | ¾ inch |
|---|---|---|
| Per dozen | $1.20 | 1.20 |




COOPER'S SEAMLESS BRASS

| Size | ½ | ¾ inch. |
|---|---|---|
| Per dozen | $1.70 | 1.70 |

# HUDSON'S HOSE MENDERS




One set in a box.

Each box contains 1 pair Pliers, 20 Bands, and 6 Repair Tubes.

For ½ or ¾ Hose ..... per box $1.00

### PARTS SEPARATE

Pliers for fastening Bands ..... per doz. $5.00

| Size of Hose | ½ | ¾ | 1 inch. |
|---|---|---|---|
| Bands ..... per doz. | $0.25 | 0.30 | 0.60 |
| Repair Tubes ..... " | 0.40 | 0.50 | 1.00 |

## BIB, HOSE, AND GAUGE GLASS WASHERS

FULLER BIB WASHERS — No. 1848

COMPRESSION BIB WASHERS — No. 1849

HOSE COUPLING WASHERS — No. 1851

GAUGE GLASS WASHERS — No. 1852

| Size | ⅜ | ½ | ⅝ | ¾ | 1 inch. |
|---|---|---|---|---|---|
| No. **1848**—Fuller Bib Washers ..... per doz. | | $0.24 | 0.30 | 0.30 | 0.40 |
| " **1849**—Boss Compression Bib Washers ..... per 100 | $1.50 | 1.50 | 1.60 | 2.00 | 2.50 |
| " **1851**—Rubber Hose Coupling Washers ..... per doz. | | 0.15 | .... | 0.15 | 0.15 |
| " **1852**— " Gauge Glass " ..... " | | 0.50 | 0.50 | 0.60 | 0.75 |



GEM

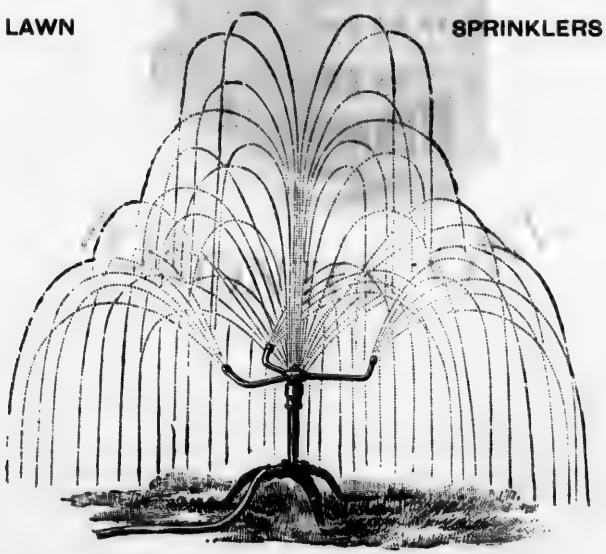
3 inch
76.00

1 inch.
2.00



¾ inch.
1.70

## LAWN SPRINKLERS



REVOLVING HEAD

**Wolverine** Sprinkler, top and arms brass, plated, base and legs japanned ..... each $2.15

**Peerless** Sprinkler, arms brass, polished. Standard, base and legs japanned ..... " 1.50

# LAWN SPRINKLERS



CHAMPION




DANDY

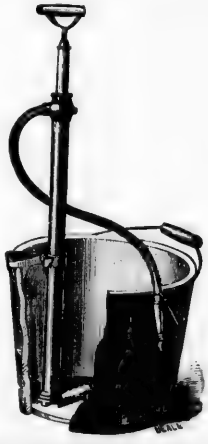
**Champion** Sprinklers with Spike, Plated, for ½ or ¾ inch Couplings ..... per doz. $9.20
**Dandy** " " " " " ½ or ¾ " " ..... " 9.00

## GARDEN SYRINGES



No. **413E**—Brass, 1½ × 18 inch, with Stream and Spray ..... per doz. 16.25
" **2015** —Zinc, 1 7/8 × 18 " with Spray only ..... " 5.25

## JOHNSTON'S FORCE PUMP



SHOWING PUMP WHEN ATTACHED TO PAIL

With 3 feet Hose..... each $8.00

## HOSE REELS



With Drum..... per doz. 22.00
Without " ..... " 14.00

# HYDRAULIC RAMS



HYDRAULIC RAM IN OPERATION

The various uses of the Ram are at once obvious, viz.: For the purpose of irrigating lands, supplying dwellings, gardens, factories, villages, engines, railroad stations, stock yards, etc., with running water.

The size of the pipes should vary in proportion to the distance the water is to be conveyed, as the greater the distance the larger the pipe in proportion to the size of the machine. This, however, applies to only the discharge pipe.

By means of an Adjuster applied to each of the rams, the quantity of water drawn from the fountain may be varied at pleasure, thus readily adapting the machine to a variable supply. The annexed table exhibits at a glance the capacity, size, price, etc. Pipe furnished when ordered.

GENERAL RULE.—Multiply the quantity supplied by the spring (in gallons per minute) by 65. Multiply this product by the "Head" or number of feet in fall; then divide by 100 times the height to which the water is to be elevated. The result will give the quantity of water raised per minute.

The Rams are fitted for either wrought iron pipe or lead pipe.

Where water is to be forced to any very great distance (say more than 75 rods), it is preferable to use a Discharge Pipe of larger caliber than named in the table below. With a given supply of water under a great fall, the Ram is not required to be of as large size as for the same quantity of water under a less fall. That is, the No. 4 Ram would be of sufficient capacity for taking water from a spring or brook, furnishing seven gallons per minute, where the fall was eight or ten feet; when, if there was not over three or four feet fall to the same spring or brook, then a No. 5 Ram would be better adapted to the place. The Ram can be placed in a pit, and the pipes should be underground, for protection against frost or other injury.

**Table giving the Capacity of the Various Sizes of Rams, and the Dimensions of the Pipes to be used in Connection with the same.**

| SIZE OF RAMS. | Quantity of Water furnished per Minute by the Spring or Brook to which the Ram is adapted. | Length of Drive Pipe. | CALIBER OF PIPES. | | Price Each. |
|---|---|---|---|---|---|
| | | | Drive. | Discharge. | |
| No. 2 | ½ gals. to 2 gals. per minute. | 25 to 50 feet. | ¾ inch. | ¼ inch. | $ 9.00 |
| " 3 | 1 " 4 " " | 25 to 50 " | 1 " | ⅜ " | 11.00 |
| " 4 | 2 " 8 " " | 25 to 50 " | 1¼ " | ½ " | 14.00 |
| " 5 | 3 " 14 " " | 25 to 50 " | 2 " | 1 " | 22.00 |
| " 6 | 4 " 25 " " | 30 to 50 " | 2½ " | 1¼ " | 40.00 |
| " 7 | 8 " 60 " " | 30 to 50 " | 4 " | 2 " | 75.00 |
| " 8 | 12 " 120 " " | 30 to 50 " | 6 " | 2½ " | 125.00 |
| " 9 | 80 " 250 " " | 30 to 50 " | 9 " | 3½ " | 225.00 |

For Patent Vibration Joint Air Chamber, add to list No. 2, $1.00; No. 3, $1.00; No. 4, $1.50; and No. 5, $2.00 extra.

# CISTERN PUMPS

## REVOLVING CLOSE TOP



No. A, PITCHER SPOUT



No. B, CLOSE SPOUT

These Pumps are to be used for either lead or gas pipe by a coupling or nut fastened to the hub through which a soldering tube is introduced They are also anti-freezing.

| Nos | 1 | 2 | 3 | 4 | 5 | |
|---|---|---|---|---|---|---|
| Size of Cylinder | 2½ | 3 | 3½ | 4 | 4½ | inch. |
| Suitable for Pipe | 1 | 1 or 1¼ | 1¼ | 1¼ or 2 | 2 | " |
| No. A—Pitcher Spout ..... each | $4.25 | 4.75 | 5.25 | 5.75 | 6.25 | |
| " B—Close " ..... " | 4.25 | 4.75 | 5.25 | 5.75 | .... | |



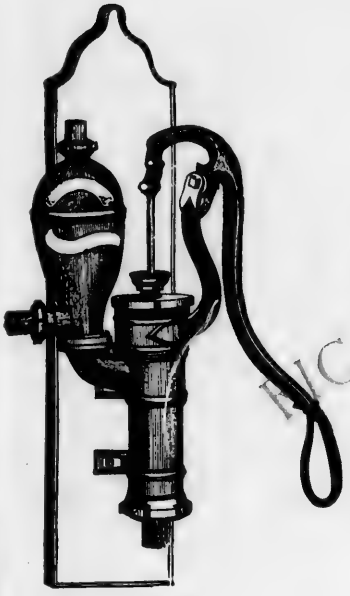
No. C

## CLOSE TOP CISTERN PUMP

| | Iron | Brass Lined Cylinder. |
|---|---|---|
| No. 1—2½ Cylinder, suitable for 1 or 1¼ inch Pipe... | $4.50 | 7.00 |
| " 2—3 " " " 1¼ inch Pipe ..... | 5.50 | 8.00 |
| " 3—3½ " " " 1¼ or 1½ inch Pipe.. | 6.50 | 10.00 |

Has strongly Bolted Base with Coupling Attachments below, either for iron or lead pipe. To prevent freezing the lever should be raised to its extreme height, which opens the lower valve and permits the water to run back into the well.

# FORCE PUMPS



No. 42



No. 41



No. 24

These Pumps are easily adapted to any location. The Lever can be revolved to any desired position and held firmly in place.

### FOR EITHER IRON OR LEAD PIPE

| | Iron. | Brass Cylinder. |
|---|---|---|
| No. 41—2½ inch Cylinder, for 1 or 1¼ inch pipe..each | $11.00 | 15.00 |
| " 41—3 " " " 1¼ inch pipe..... " | 13.00 | 17.00 |
| " 42—2½ " " " 1 or 1¼ inch pipe.. " | 11.00 | 15.00 |
| " 42—3 " " " 1¼ inch pipe..... " | 13.00 | 17.00 |

## LIFT AND FORCE PUMP

### No. 24

### WITH WROUGHT IRON EXTENSION PIPE

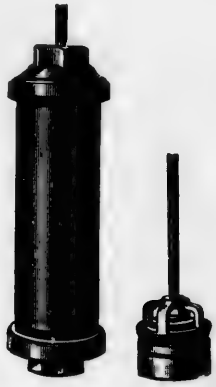
| | | |
|---|---|---|
| No. 24—2½ inch Cylinder, for 1¼ inch pipe ..... | each | $12.50 |
| " 24—3 " " " 1¼ " " ..... | " | 13.50 |
| " 24—3½ " " " 1¼ " " ..... | " | 14.50 |
| " 25—Standard without Cylinder ..... | " | 9.00 |

# PUMP CYLINDERS

## FOR SHALLOW AND DEEP WELLS, OPEN OR DRILLED



No. 58



No. 59



No. 60



No. 61

**No. 58**

| Size. No. | Size. Inches. | A Iron. | B Brass Lined. | C Brass Body. | D Brass Body & Plunger. |
|---|---|---|---|---|---|
| 1 | 2¼ x 9 | $4.35 | ..... | ..... | ..... |
| 2 | 3 x 9 | 5.00 | ..... | ..... | ..... |
| 3 | 3½ x 9 | 5.60 | ..... | ..... | ..... |
| 4 | 2¼ x 10 | 4.35 | $7.75 | $8.00 | $8.75 |
| 5 | 3 x 10 | 5.00 | 8.75 | 9.50 | 10.50 |
| 6 | 3½ x 10 | 5.60 | 9.75 | 11.50 | 12.50 |
| 7 | 4 x 10 | 6.25 | 10.50 | 14.00 | 15.00 |
| 8 | 2¼ x 11 | 5.17 | 8.50 | 11.50 | 12.50 |
| 9 | 3 x 11 | 6.00 | 9.50 | 12.75 | 14.25 |
| 10 | 3½ x 11 | 6.83 | 10.50 | 15.50 | 17.50 |
| 11 | 4 x 11 | 7.62 | 12.50 | 21.50 | 24.00 |
| 12 | 2¼ x 13 | 6.50 | 9.25 | 11 75 | 13.00 |
| 13 | 3 x 13 | 7.50 | 10.25 | 13.50 | 15.00 |
| 14 | 3½ x 13 | 8.50 | 11.25 | 16.50 | 19.00 |
| 15 | 4 x 13 | 10.00 | 14.00 | 23.75 | 27.00 |
| 16 | 4½ x 13 | 12.50 | 17.00 | 28.50 | 32.00 |

**Nos. 59 and 60**

| Size. No. | Size. Inches. | A Iron. | B Brass Lined | C Brass Body. | D Brass Body & Plunger. |
|---|---|---|---|---|---|
| 1 | 2 x 13 | ..... | ..... | $10.75 | $12.00 |
| 2 | 2¼ x 13 | $6.50 | $9.25 | 11.75 | 13.00 |
| 3 | 3 x 13 | 7.50 | 10.25 | 13.50 | 15.00 |
| 4 | 3½ x 13 | 8.50 | 11.25 | 16.50 | 19.00 |
| 5 | 4 x 13 | 10.00 | 14.00 | 23.75 | 27.00 |
| 6 | 4½ x 13 | 12.50 | 17.00 | 28.50 | 32.00 |
| 7 | 2 x 16 | 6.00 | 9.00 | 10.50 | 12.00 |
| 8 | 2¼ x 16 | 7.00 | 10.00 | 12.50 | 14.00 |
| 9 | 3 x 16 | 8.00 | 11.00 | 14.00 | 15.50 |
| 10 | 3½ x 16 | 9.00 | 12.00 | 18.50 | 21.00 |
| 11 | 4 x 16 | 10.50 | 15.75 | 26.00 | 29.00 |
| 12 | 4½ x 16 | 14.00 | 19.00 | 30.00 | 35.00 |

**Nos. 61 and 62**

| Size. No. | Size. Inches. | A Iron. | B Brass Lined. | C Brass Body. | D Brass Body & Plunger. |
|---|---|---|---|---|---|
| 1 | 2 x 16 | ..... | ..... | $ 10.50 | $12.00 |
| 2 | 2¼ x 16 | $7.00 | $10.00 | 12.50 | 14.00 |
| 3 | 3 x 16 | 8.00 | 11.00 | 14.00 | 15.50 |
| 4 | 3½ x 16 | 9.00 | 12.00 | 18.50 | 21.00 |
| 5 | 4 x 16 | 10.50 | 15.75 | 26.00 | 29.00 |
| 6 | 4½ x 16 | 13.00 | 19.00 | 30.00 | 35.00 |
| 7 | 2 x 19 | ..... | ..... | 13.00 | 14.50 |
| 8 | 2¼ x 19 | 8.00 | 10.75 | 13.75 | 15.25 |
| 9 | 3 x 19 | 9.00 | 11.75 | 16.50 | 18.00 |
| 10 | 3½ x 19 | 10.00 | 12.75 | 21.50 | 24.00 |
| 11 | 4 x 19 | 11.50 | 17.50 | 29.00 | 32.50 |
| 12 | 4½ x 19 | 14.00 | 22.00 | 33.00 | 37.50 |

**No. 58—represents Shallow Well Cylinder with Short Plunger and Sand Valve Seats. No. 59—Deep Well Cylinder with Medium Plunger, for Open Wells. No. 60—Deep Well Cylinder with Medium Plunger, for Drilled Wells. No. 61—Deep Well Cylinder with Long Plunger, for Open Wells. No. 62—Similar to No. 60, but with Long Plunger. In ordering, always give Cylinder Number, Size Number and Letter denoting Style of Cylinder wanted.**

| C | D |
|---|---|
| ass Body. | Brass Body & Plunger. |
| ..... | ..... |
| ..... | ..... |
| ..... | ..... |
| $8.00 | $8.75 |
| 9.50 | 10.50 |
| 11.50 | 12.50 |
| 14.00 | 15.00 |
| 11.50 | 12.50 |
| 12.75 | 14.25 |
| 15.50 | 17.50 |
| 21.50 | 24.00 |
| 11 75 | 13.00 |
| 13.50 | 15.00 |
| 16.50 | 19.00 |
| 23.75 | 27.00 |
| 28.50 | 32.00 |

| C | D |
|---|---|
| Brass Body. | Brass Body & Plunger. |
| $10.75 | $12.00 |
| 11.75 | 13.00 |
| 13.50 | 15.00 |
| 16.50 | 19.00 |
| 23.75 | 27.00 |
| 28.50 | 32.00 |
| 10.50 | 12.00 |
| 12.50 | 14.00 |
| 14.00 | 15.50 |
| 18.50 | 21.00 |
| 26.00 | 29.00 |
| 30.00 | 35.00 |

| C | D |
|---|---|
| Brass Body. | Brass Body & Plunger. |
| 10.50 | $12.00 |
| 12.50 | 14.00 |
| 14.00 | 15.50 |
| 18.50 | 21.00 |
| 26.00 | 29.00 |
| 30.00 | 35.00 |
| 13.00 | 14.50 |
| 13.75 | 15.25 |
| 16.50 | 18.00 |
| 21.50 | 24.00 |
| 29.00 | 32.50 |
| 33.00 | 37.50 |

No. 59—Deep Well
lium Plunger, for
Similar to No. 60,
er denoting Style

# DRIVE WELL POINTS

## No. 56

| No. | Diam. of Pipe. | Length. | Holes. | Price Per Dozen. No. 60 Gauze. | No. 70 Gauze. | No. 80 Gauze. | No. 90 Gauze. |
|---|---|---|---|---|---|---|---|
| 300 | 1¼ inch. | 20 inch. | 50 | $ 30.00 | $ 36.00 | $ 42.00 | $ 50.00 |
| 301 | 1½ " | 24 " | 60 | 36 00 | 44.00 | 52.00 | 60.00 |
| 320 | 1½ " | 24 " | 80 | 48 00 | 57.00 | 65.00 | 78.00 |
| 321 | 1½ " | 30 " | 110 | 60.00 | 70.00 | 80.00 | 96.00 |
| 324 | 2 " | 30 " | 140 | 90.00 | 101.00 | 112.00 | 132.00 |
| 325 | 2 " | 36 " | 170 | 105.00 | 118.00 | 130.00 | 154.00 |

## BRASS JACKET POINT

## No. 57

| No. | Diam. of Pipe. | Length. | Holes. | Price Per Dozen. No. 60 Gauze. | No. 70 Gauze. | No. 80 Gauze. | No. 90 Gauze. |
|---|---|---|---|---|---|---|---|
| 86 | 1¼ inch. | 20 inch. | 80 | $ 30.00 | $ 36.00 | $ 42.00 | $ 50.00 |
| 90 | 1½ " | 24 " | 100 | 36.00 | 44.00 | 52.00 | 60.00 |
| 136 | 1½ " | 24 " | 120 | 48.00 | 57.00 | 65.00 | 78.00 |
| 140 | 1½ " | 30 " | 160 | 60.00 | 70.00 | 80.00 | 96.00 |
| 164 | 2 " | 30 " | 200 | 90.00 | 101.00 | 112.00 | 132.00 |
| 168 | 2 " | 36 " | 260 | 105.00 | 118.00 | 130.00 | 154.00 |

The Lengths given are for Pipe only and do not include the Cast Point.



No 56



No. 57

## STRAINERS AND FITTINGS

### FOR WROUGHT IRON PIPE



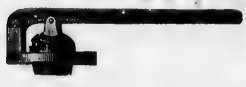
No. 64



No. 65 No. 66 No. 67




No. 63



No. 195



No. 68

| Nos | 63 | 64 | 65 | 66 | 67 | 68 | 195 |
|---|---|---|---|---|---|---|---|
| For ⅜ inch Pipe ..... each | ..... | ..... | ..... | ..... | ..... | 0.80 | 1.00 |
| " 1 " ..... " | $2.00 | 2.00 | 0.40 | 0.50 | 0.50 | 1.00 | 1.50 |
| " 1¼ " ..... " | 2.25 | 2.25 | 0.50 | 0.60 | 0.60 | 1.50 | 2.00 |
| " 1½ " ..... " | 2.50 | 2.50 | 0.60 | 0.70 | 0.70 | .... | .... |

Nos. 65, 66 and 67 covered with Brass Gauze add 30 cents to list.

No. 63, represents Foot Valve and Strainer, for attaching to lower end of Suction Pipes to relieve the Upper Working Valves of the column of water when the pump is not in use. No. 64, Check Value, suitable to place at any point in the Suction Pipe and used for the same purpose as No. 63. No. 65, Strainer, with large end to slip over Pipe. No. 66, Strainer, Threaded Iron Pipe size. No. 67, Strainer, threaded outside to Screw into Coupling. No. 68, Float Valve, for regulating height of water in Tank. No. 195, Tank Valve, for use in drawing water from Tank.

RICE LEWIS & SON LIMITED TORONTO, ONT.

# INJECTORS

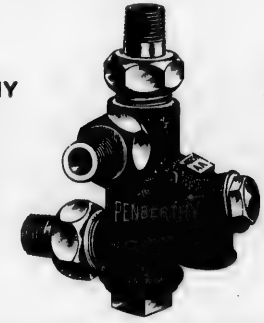
## THE HOGUE LOCOMOTIVE AND STATIONARY BOILER INJECTOR




**This is the latest improved Single Tube Injector in the market. All couplings are made with ground ball joints, every Injector thoroughly tested before leaving the factory, and guaranteed to work perfectly, if properly connected and not over taxed.**

| Size. | Price. | Pipe Connections. | | | Capacity per hour; 1 to 4 ft. lift, 50 to 75 lbs. pressure. | | Horse Power. |
|---|---|---|---|---|---|---|---|
| | | Steam. | 1 Suction. | Delivery. | Maximum. | Minimum. | |
| ⅜ | $16.00 | ⅜ | ⅜ | ⅜ | 80 | 55 | 4 to 8 |
| ½ | 18.00 | ½ | ½ | ½ | 120 | 70 | 8 to 10 |
| ⅝ | 20.00 | ⅝ | ⅝ | ⅝ | 165 | 90 | 10 to 15 |
| ¾ | 25.00 | ¾ | ¾ | ¾ | 250 | 135 | 15 to 25 |
| ⅞ | 30.00 | ⅞ | ⅞ | ⅞ | 340 | 165 | 25 to 35 |
| 1 | 40.00 | 1 | 1 | 1 | 475 | 300 | 35 to 50 |
| 1 | 45.00 | 1 | 1 | 1 | 575 | 350 | 50 to 60 |
| 1¼ | 75.00 | 1¼ | 1¼ | 1¼ | 1300 | 700 | 120 to 165 |
| 1½ | 90.00 | 1½ | 1½ | 1¼ | 1740 | 900 | 165 to 230 |
| | | Overflow, ¼ larger. | | | | | |

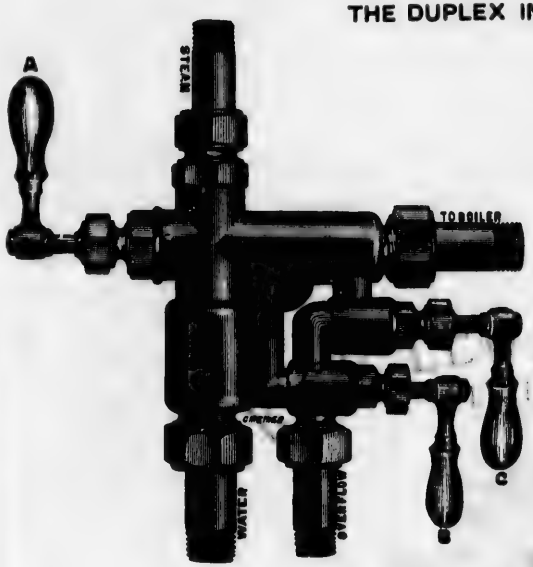
## THE PENBERTHY AUTOMATIC INJECTOR




| Size. | Price. | Horse Power. | Pipe Connections. | Capacity per hour; 1 to 3 ft. lift, 50 to 75 lbs. pressure. | |
|---|---|---|---|---|---|
| | | | | Maximum. | Minimum. |
| OO | $16.00 | 4 to 8 | ⅜ inch | 80 | 55 |
| A | 18.00 | 8 to 10 | ½ " | 120 | 70 |
| AA | 20.00 | 10 to 15 | ⅝ " | 165 | 90 |
| B | 25.00 | 15 to 25 | ¾ " | 250 | 135 |
| BB | 30.00 | 25 to 35 | ⅞ " | 340 | 165 |
| C | 40.00 | 35 to 50 | 1 " | 475 | 300 |
| CC | 45.00 | 50 to 60 | 1 " | 575 | 350 |
| D | 55.00 | 60 to 95 | 1¼ " | 750 | 400 |
| DD | 60.00 | 95 to 120 | 1¼ " | 920 | 500 |
| E | 75.00 | 120 to 165 | 1½ " | 1300 | 700 |
| EE | 90.00 | 165 to 230 | 1½ " | 1740 | 900 |
| F | 110.00 | 230 to 290 | 2 " | 2270 | 1100 |
| FF | 125.00 | 290 to 365 | 2 " | 2820 | 1400 |

# INJECTORS

## THE DUPLEX INJECTOR




| No. of Injector. | Size Connections. Water Suction and to Boiler. Inches. | Steam. Inches. | Gallons per hour 60 lbs. Pressure. | Price. |
|---|---|---|---|---|
| 3 | ¾ | ¾ | 65 | $20.00 |
| 3½ | ¾ | ¾ | 90 | 21.00 |
| 5 | ¾ | ¾ | 180 | 25.00 |
| 7 | ¾ | ¾ | 240 | 30.00 |
| 9 | ¾ | ¾ | 320 | 35.00 |
| 11 | 1 | 1 | 500 | 50.00 |
| 13 | 1¼ | 1 | 660 | 60.00 |
| 15 | 1¼ | 1¼ | 1280 | 75.00 |
| 17 | 1½ | 1¼ | 1760 | 90.00 |
| 19 | 2 | 1½ | 2260 | 110.00 |
| 21 | 2 | 1½ | 2860 | 125.00 |
| 23 | 2½ | 2 | 3480 | 150.00 |
| 25 | 3 | 2½ | 4620 | 200.00 |

## UNIVERSAL DOUBLE TUBE INJECTOR

### KORTING'S

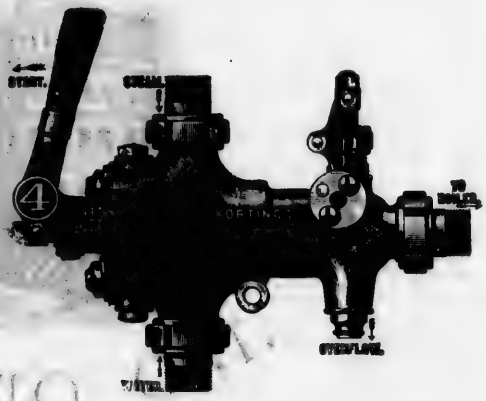
Working to the best advantage in all cases.

Takes water at a temperature of 150 degrees Fahr.

Worked entirely by one handle.

To start, open with handle.

To stop, shut with handle.

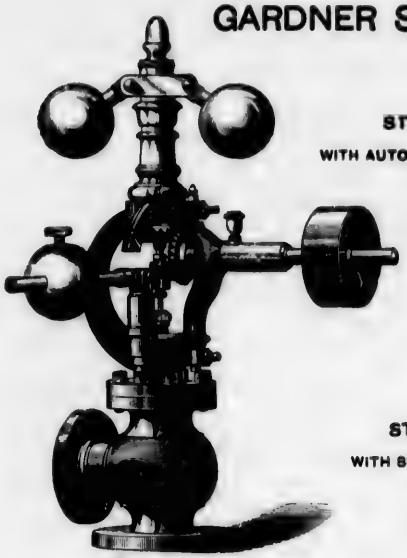



## PRICE LIST AND TABLE OF CAPACITIES

| Size No. | Price of Injector. A 1 Brass. | Size of Iron Pipe Connections. Inches. | Pressure of Steam in Pounds. 30 H. P. or Cubic ft. per hour. | 30 Gallons per hour. | 45 H. P. or Cubic ft. per hour | 45 Gallons per hour. | 60 H. P. or Cubic ft. per hour. | 60 Gallons per hour. | 90 H. P. or Cubic ft. per hour. | 90 Gallons per hour. | 120 H. P. or Cubic ft. per hour. | 120 Gallons per hour | 150 H. P. or Cubic ft. per hour. | 150 Gallons per hour. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00 | $40.00 | ¼ | 3.5 | 26 | 4 | 30 | 5 | 37 | 6 | 45 | 7 | 52 | 8 | 60 |
| 0 | 42.00 | ¼ | 9 | 67 | 10.5 | 79 | 12 | 90 | 13 | 97 | 14 | 105 | 15 | 112 |
| 1 | 46.00 | ¼ | 13 | 97 | 14.5 | 109 | 16.5 | 124 | 18.5 | 139 | 21 | 157 | 24 | 180 |
| 2 | 56.00 | ¼ | 20 | 150 | 22 | 165 | 25 | 187 | 27 | 202 | 29 | 217 | 31 | 232 |
| 3 | 76.00 | ¼ | 33 | 247 | 36 | 270 | 39 | 292 | 43 | 322 | 48 | 360 | 53 | 397 |
| 3½ | 92.00 | ¼ | 46 | 345 | 51 | 382 | 57 | 427 | 61 | 457 | 66 | 495 | 73 | 547 |
| 4 | 110.00 | 1 | 60 | 450 | 68 | 510 | 76 | 570 | 81 | 607 | 86 | 645 | 96 | 720 |
| 5 | 120.00 | 1¼ | 75 | 562 | 86 | 645 | 98 | 735 | 104 | 780 | 111 | 832 | 123 | 922 |
| 6 | 130.00 | 1¼ | 90 | 675 | 105 | 787 | 120 | 900 | 128 | 960 | 136 | 1020 | 150 | 1125 |
| 7 | 170.00 | 1¼ | 128 | 960 | 139 | 1042 | 150 | 1125 | 172 | 1290 | 195 | 1462 | 215 | 1612 |
| 8 | 200.00 | 1½ | 165 | 1237 | 180 | 1350 | 195 | 1462 | 225 | 1687 | 256 | 1912 | 282 | 2115 |

These capacities are based on actual tests and are fully guaranteed.

# GARDNER STANDARD GOVERNORS



Class "A"

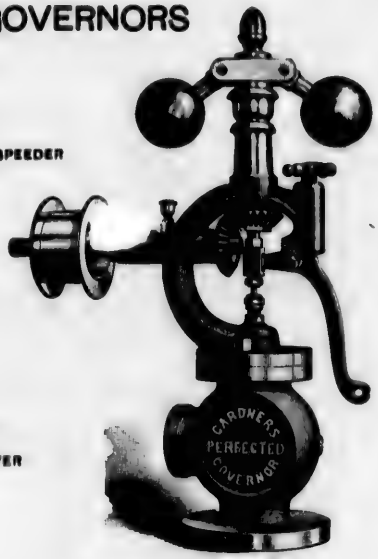
STANDARD GOVERNOR

WITH AUTOMATIC SAFETY STOP AND SPEEDER

Class "B"

STANDARD GOVERNOR

WITH SPEEDER AND SAWYER'S LEVER




Class "B"

## PRICE LIST CLASSES "A" AND "B" STANDARD GOVERNORS

In ordering, state whether Plain or Finished is desir

| Size of Governor—Diam. of Opening. | ¾ | 1 | 1¼ | 1½ | 2 | 2¼ | 2½ | 3 | 3½ | 4 | 4½ | 5 | 6 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Class "A," Plain | ..... | ..... | ..... | $29.50 | 36.00 | 42.00 | 48.00 | 59.00 | 71.00 | 83.00 | 96.00 | 109.00 | 140.00 |
| " "A," Finished | ..... | ..... | ..... | $33.50 | 40.00 | 47.00 | 53 00 | 67.00 | 80.00 | 93 00 | 107.00 | 121.00 | 154.00 |
| " "B," Plain | $16.00 | 18.00 | 21.00 | 25.00 | 30.00 | 35.00 | 40.00 | 50.00 | 60.00 | 71.00 | 83.00 | 94.00 | 122.00 |
| " "B," Finished | $18.00 | 20.00 | 24.00 | 29.00 | 34.00 | 40.00 | 45.00 | 58.00 | 69 00 | 81.00 | 94.00 | 106.00 | 136.00 |

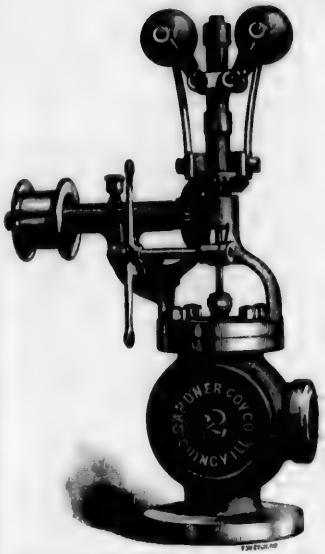
## TABLE OF DIMENSIONS OF CLASS "A" STANDARD GOVERNORS

| Size of Governor—Diameter of Opening. | 1½ | 2 | 2¼ | 2½ | 3 | 3½ | 4 | 4½ | 5 | 6 |
|---|---|---|---|---|---|---|---|---|---|---|
| Diameter of Base Flange | 5½ | 7 | 7 | 8 | 9 | 9 | 10 | 10 | 12 | 14 |
| " Side " | Sc'd | Sc'd | 7 | 7 | 8 | 9 | 10 | 10 | 11 | 13 |
| Largest Radius of Balls | 5 | 6 | 6 | 6½ | 7½ | 7½ | 8½ | 8½ | 10 | 11 |
| From Centre to Side Flange | 3½ | 5 | 5 | 5½ | 6 | 6½ | 6½ | 7 | 7½ | 8½ |
| From Base to Centre of Inlet | 4 | 5 | 5½ | 5½ | 6 | 6½ | 6½ | 7 | 8 | 8½ |
| Extreme Height | 21 | 25 | 26 | 28 | 32 | 34 | 37 | 38 | 43 | 44 |
| From Centre to End of Shaft | 11 | 13 | 13 | 15 | 15 | 17 | 17 | 17 | 21 | 21 |
| Diameter of Pulley | 3 | 5 | 5 | 5 | 5½ | 5½ | 6 | 6 | 7 | 7 |
| Width of Belt | 1½ | 2 | 2 | 2 | 2 | 2 | 2½ | 2½ | 3 | 3 |
| Number of Revolutions | 250 | 200 | 200 | 200 | 170 | 170 | 160 | 160 | 150 | 150 |

## TABLE OF DIMENSIONS OF CLASS "B" STANDARD GOVERNORS

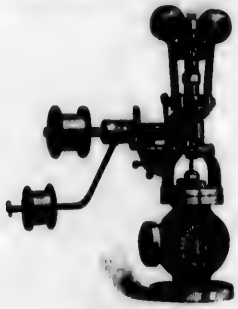
| Size of Governor—Diam of Opening. | ¾ | 1 | 1¼ | 1½ | 2 | 2¼ | 2½ | 3 | 3½ | 4 | 4½ | 5 | 6 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diameter of Base Flange | Sc'd | Sc'd | Sc'd | 5½ | 7 | 7 | 8 | 9 | 9 | 10 | 10 | 12 | 14 |
| " Side " | Sc'd | Sc'd | Sc'd | Sc'd | Sc'd | 7 | 7 | 8 | 9 | 10 | 10 | 11 | 13 |
| Largest Radius of Balls | 4 | 4 | 5 | 5 | 6 | 6 | 6½ | 7½ | 7½ | 8½ | 8½ | 10 | 11 |
| From Centre to Side Flange | 2¼ | 2½ | 3 | 3½ | 5 | 5 | 5½ | 6 | 6½ | 6½ | 7 | 7½ | 8½ |
| From Base to Centre of Inlet | 2¼ | 2½ | 3 | 4 | 5 | 5½ | 5½ | 6 | 6½ | 6½ | 7 | 8 | 8½ |
| Extreme Height | 15 | 15 | 20 | 21 | 25 | 26 | 28 | 32 | 34 | 37 | 38 | 43 | 44 |
| From Centre to End of Shaft | 9 | 9 | 11 | 11 | 13 | 13 | 15 | 15 | 17 | 17 | 17 | 21 | 21 |
| Diameter of Pulley | 2 | 2 | 3 | 3 | 5 | 5 | 5 | 5½ | 5½ | 6 | 6 | 7 | 7 |
| Width of Belt | 1¼ | 1¼ | 1½ | 1½ | 2 | 2 | 2 | 2 | 2 | 2½ | 2½ | 3 | 3 |
| Number of Revolutions | 300 | 300 | 250 | 250 | 200 | 200 | 200 | 170 | 170 | 160 | 160 | 150 | 150 |

# GARDNER SPRING GOVERNORS



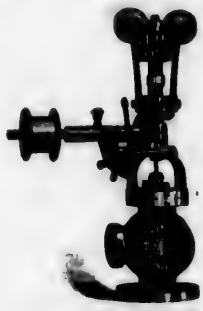
Class "B," SPRING GOVERNOR

WITH SPEEDER AND SAWYER'S LEVER, AND WITH OR WITHOUT AUTOMATIC SAFETY STOP



Class "A," SPRING

WITH SPEEDER, HAND LEVER AND AUTOMATIC STOP



Class "B," SPRING

WITH SPEEDER AND HAND LEVER



Figure 9

Figure 9 represents our **Horizontal Spring Governor**, for either vertical or horizontal steam pipe. These are furnished with Straight-Way or Angle-Valve Chambers, and Flanged or Screwed Openings. The position of the Pulley is fixed.

These Spring Governors are designed especially for High-Speed Stationary and Portable Engines. They are quick and sensitive in action. In construction they are fully up to the best modern practice in every particular, and are made in sizes from ½ to 7 inches inclusive.

Class "B" represents the Spring Governor without Automatic Stop, but furnished with Speeder and Hand Lever on all sizes.

Class "A" shows the Spring Governor with Automatic Stop. This also has Speeder and Hand Lever.

## PRICE LIST OF CLASSES "A" AND "B" SPRING GOVERNORS

| Diam. of Opening. | ½ | ¾ | 1 | 1¼ | 1½ | 2 | 2¼ | 2½ | 3 | 3½ | 4 | 4½ | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Class "B," Plain .. | $14 00 | $16.00 | $18.00 | $21.00 | $25.00 | $30.00 | $35.00 | $40.00 | $50 00 | $60.00 | $71.00 | $83.00 | $94.00 | $122.00 | $150.00 |
| " "B," Finished | 16.00 | 18.00 | 20.00 | 24 00 | 29.00 | 34.00 | 40.00 | 45.00 | 58.00 | 69.00 | 81.00 | 94.00 | 106.00 | 136.00 | 166.00 |
| " "A," Plain .. | ..... | ..... | 21.00 | 24.50 | 29.50 | 36.00 | 42.00 | 48.00 | 59.00 | 71.00 | 83.00 | 96.00 | 109.00 | 140.00 | 170.00 |
| " "A," Finished | ..... | ..... | 23.00 | 27.50 | 33.50 | 40.00 | 47.00 | 53.00 | 67.00 | 80.00 | 93.00 | 107.00 | 121.00 | 154 00 | 186.00 |

Class "B" is without Automatic Stop, and Class "A" with Automatic Stop.

## TABLE OF DIMENSIONS OF CLASSES "A" AND "B" SPRING GOVERNORS

| Size of Governor. | ½ | ¾ | 1 | 1¼ | 1½ | 2 | 2¼ | 2½ | 3 | 3½ | 4 | 4½ | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diameter of Base Flange.. | Sc'd | Sc'd | Sc'd | Sc'd | 5½ | 7 | 7 | 8 | 9 | 9 | 10 | 10 | 12 | 14 | 15 |
| Diameter of Side Flange.. | Sc'd | Sc'd | Sc'd | Sc'd | Sc'd | Sc'd | 7 | 7 | 8 | 9 | 10 | 10 | 11 | 12 | 14 |
| Height, inches ..... | 12 | 13 | 13½ | 17½ | 22 | 23 | 24 | 27 | 29 | 30 | 35 | 36 | 37 | 42 | 44 |
| Radius of Balls..... | 2½ | 2½ | 2½ | 3½ | 4 | 4 | 4 | 5 | 5 | 5 | 5½ | 6 | 6 | ..... | ..... |
| Length of Shaft..... | 8 | 8 | 8 | 11 | 11 | 13 | 13 | 15 | 15 | 15 | 16 | 16 | 18 | 20 | 20 |
| Diameter of Pulley..... | 1½ | 1½ | 1½ | 2 | 2½ | 2½ | 2½ | 3½ | 3½ | 3½ | 4½ | 4½ | 4½ | 6 | 6 |
| Width of Belt..... | 1 | 1 | 1 | 1½ | 1½ | 1½ | 1½ | 2 | 2 | 2 | 2½ | 2½ | 2½ | 2 | 3 |
| Centre to Side of Chamber | 1¾ | 2½ | 2½ | 3 | 3½ | 5 | 5 | 5½ | 6 | 6½ | 6¾ | 7 | 7½ | 8½ | 9 |
| Base to Centre of Chamber | 1¾ | 2½ | 2½ | 3 | 4 | 5 | 5½ | 5½ | 6 | 6½ | 6½ | 7 | 8 | 8½ | 9½ |
| Number of Revolutions... | 600 | 600 | 600 | 450 | 400 | 400 | 400 | 350 | 350 | 350 | 275 | 275 | 275 | 280 | 280 |

### Short Rule for Calculating the Size of Pulleys

To Find Diameter of Governor Shaft Pulley.—Multiply number of revolutions of engine by diameter of engine shaft pulley, and divide product by number of revolutions of governor.

To Find Diameter of Engine Shaft Pulley.—Multiply number of revolutions of governor by diameter of governor Shaft Pulley, and divide product by number of revolutions of engine.

# DRINKING FOUNTAINS



COLUMNS

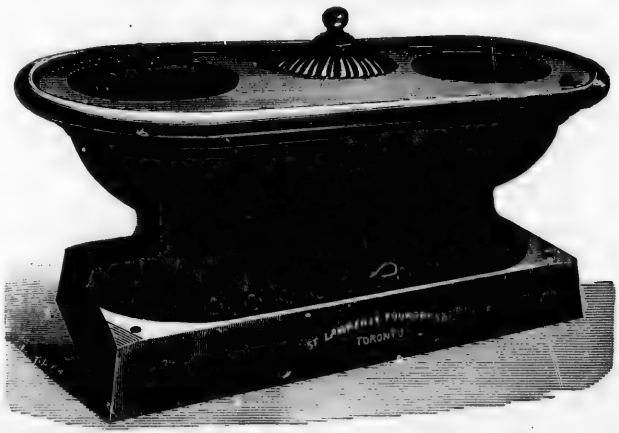




LAMP POSTS

Automatic, fitted with Hyde Valves, no waste of water, at the Base is attached a tray through which waste water runs.

## HORSE TROUGHS



These Troughs are strictly Automatic, fitted with Hyde Valves. A large number of them are in use in Toronto and elsewhere, and giving entire satisfaction.

Prices on application.



LAMP POSTS

# STREET AND FIRE HYDRANTS

"ST. LAWRENCE"



No. 1 No. 2 No. 3 No. 4

## CAST-IRON GAS, WATER & SEWER PIPES.

**Thickness and Weight of Standard Cast Iron Pipe**

| Diameter.....inch | 3 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 24 | 30 | 36 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Thickness.....“ | $\frac{1}{4}$ | $\frac{5}{16}$ | $\frac{5}{16}$ | $\frac{3}{8}$ | $\frac{3}{8}$ | $\frac{7}{16}$ | $\frac{1}{2}$ | $\frac{7}{16}$ | $\frac{7}{16}$ | $\frac{1}{2}$ | $\frac{1}{2}$ | $1\frac{1}{4}$ | $1\frac{1}{4}$ |
| Weight per Foot.....lbs. | 17 | 20 | 30 | 45 | 65 | 85 | 110 | 135 | 175 | 200 | 265 | 375 | 480 |
| Weight per Length.....“ | 204 | 240 | 360 | 540 | 780 | 1020 | 1320 | 1620 | 2100 | 2400 | 3180 | 4500 | 5760 |

**Prices on application.**

them are in use in

# WROUGHT-IRON PIPE

## FOR STEAM, WATER OR GAS



| Nominal Inside Diameter in Inches. | Nominal Weight per Foot. | Actual Outside Diameter. | Actual Inside Diameter. | Number of Threads to Inch of Screw. | PRICE per Foot. | Discount % Black. | Discount % Galvanized. |
|---|---|---|---|---|---|---|---|
| ⅛ | .24 | .405 | .27 | 27 | .06 | | |
| ¼ | .42 | .54 | .36 | 18 | 0.06 | | |
| ⅜ | .56 | .675 | .49 | 18 | 0.07 | | |
| ½ | .84 | .84 | .62 | 14 | 0.08½ | | |
| ¾ | 1.12 | 1.05 | .82 | 14 | 0.12 | | |
| 1 | 1.67 | 1.315 | 1.04 | 11½ | 0.17 | | |
| 1¼ | 2.24 | 1.66 | 1.38 | 11½ | 0.24 | | |
| 1½ | 2.68 | 1.90 | 1.61 | 11½ | 0.30 | | |
| 2 | 3.60 | 2.375 | 2.06 | 11½ | 0.43 | | |
| 2½ | 5.73 | 2.875 | 2.46 | 8 | 0.62 | | |
| 3 | 7.54 | 3.50 | 3.06 | 8 | 0.88 | | |
| 3½ | 9.00 | 4.00 | 3.54 | 8 | 0.81 | | |
| 4 | 10.66 | 4.50 | 4.02 | 8 | 0.95 | | |
| 4½ | 12.34 | 5.00 | 4.50 | 8 | 1.25 | | |
| 5 | 14.50 | 5.563 | 5.04 | 8 | 1.42 | | |
| 6 | 18.76 | 6.625 | 6 06 | 8 | 1.85 | | |
| 7 | 23.27 | 7.625 | 7.02 | 8 | 2.45 | | |
| 8 | 28.18 | 8.625 | 7.98 | 8 | 2.95 | | |
| 9 | 33.70 | 9.625 | 8.93 | 8 | 3.75 | | |
| 10 | 40.06 | 10.75 | 10.01 | 8 | 4.75 | | |
| 11 | 45.95 | 12.00 | 11.25 | 8 | 6.00 | | |
| 12 | 49.00 | 12.75 | 12.00 | 8 | 7.00 | | |

## WROUGHT-IRON LAP-WELDED BOILER TUBES




Size, Diameter. Outside Measure .....1½ 1¾ 2 2¼ 2½ 3 3½ 4 inch.

Lengths kept in stock, 10, 12, 14 and 16 feet only.

# FITTINGS FOR WROUGHT IRON PIPE

## MALLEABLE IRON



BUSHING



PLUG



UNION

| Size | | ¼ | ⅜ | ½ | ¾ | 1 | 1¼ | 1½ | 2 | 2½ | 3 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bushings | each | .... | $0.04 | 0.04 | 0.05 | 0.06 | 0.07 | 0.09 | 0.14 | 0.21 | .... | |
| Plugs | " | $0.03 | 0.03 | 0.05 | 0.08 | 0.10 | 0.16 | 0.19 | 0.30 | .... | .... | |
| Unions | " | 0.18 | 0.20 | 0.22 | 0.27 | 0.33 | 0.46 | 0.58 | 0.75 | 1.55 | 2.10 | |

## PUMP ROD COUPLINGS



PUMP ROD COUPLINGS

| Size | | ⅜ | ⅜ x 7/16 | 7/16 | ½ | inch. |
|---|---|---|---|---|---|---|
| Threaded | | 16 | 16 x 14 | 14 | 12 | " |
| Malleable Iron, Black | per lb. | $0.25 | 0.30 | 0.25 | 0.25 | |
| " " Galvanized | " | 0.35 | 0.40 | 0.35 | 0.35 | |

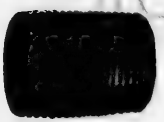


FLANGE UNION

## CAST FLANGE UNIONS

| Size | ½ | ¾ | 1 | 1¼ | 1½ | 2 | 2½ | 3 | 3½ | 4 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diameter | 3 | 3¼ | 3⅜ | 4⅛ | 4¾ | 5¼ | 5⅞ | 6¾ | 7⅛ | 8 | " |
| Each | $0.40 | 0.46 | 0.62 | 0.64 | 0.78 | 1.00 | 1.25 | 1.50 | 1.80 | 2.10 | |

## WROUGHT IRON NIPPLES



CLOSE



SHOULDER

| Size | | ¼ | ⅜ | ½ | ¾ | 1 | 1¼ | 1½ | 2 | 2½ | 3 | 3½ | 4 | 5 | 6 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Close | Right Hand | $0.04 | 0.04 | 0.05 | 0.06 | 0.09 | 0.13 | 0.15 | 0.20 | 0.38 | 0.50 | 0.73 | 0.80 | 1.75 | 2.00 | each. |
| Short | | | | | | | | | | | | | | | | |
| Long | " .... | 0.06 | 0.06 | 0.07 | 0.10 | 0.13 | 0.19 | 0.24 | 0.31 | 0.55 | 0.75 | 1.03 | 1.23 | 2.20 | 2.75 | " |

### Approximate Weight of Malleable Iron Fittings

| Size | ¼ | ⅜ | ½ | ¾ | 1 | 1¼ | 1½ | 2 | 2½ | 3 | 4 | 5 | 6 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tees | 2 oz. | 3 oz. | 4 oz. | 8 oz. | 13 oz. | 1¼ lb. | 1½ lb. | 2½ lb. | 5 lb. | 8 lb. | 13 lb. | 30 lb. | 35 lb. | each. |
| Elbows | 1½ oz. | 3 oz. | 4 oz. | 7 oz. | 10 oz. | 1 lb. | 1½ lb. | 2¼ lb. | 4¼ lb. | 9½ lb. | 12 lb. | 20 lb. | 28 lb. | " |

# MALLEABLE IRON FITTINGS

## REVISED CLASSIFICATION AND PRICE LIST


ELBOW


COUPLING


CROSS


REDUCER


TEE


CAP

### CLASS A

Elbows, $\frac{1}{8}$, $\frac{1}{4}$ x $\frac{1}{8}$, $\frac{3}{8}$ x $\frac{1}{4}$.
Tees, $\frac{1}{8}$, $\frac{1}{4}$ x $\frac{1}{8}$, $\frac{1}{4}$ x $\frac{1}{4}$, $\frac{3}{8}$ x $\frac{1}{4}$.
R. and L. Couplings, $\frac{1}{8}$ in.
Reducing Couplings $\frac{1}{4}$ x $\frac{1}{8}$, $\frac{3}{8}$ x $\frac{1}{4}$.
Couplings R. H., $\frac{1}{8}$.
Ells, R. and L., $\frac{1}{4}$ and $\frac{3}{8}$.
R. and L. Return Bends, $\frac{3}{8}$ and $\frac{1}{2}$.
Plugs, $\frac{1}{8}$.

### CLASS B

Elbows, $\frac{1}{8}$, $\frac{3}{8}$ x $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$ x $\frac{1}{4}$.
Tees, $\frac{1}{8}$, $\frac{1}{4}$ x $\frac{3}{8}$, $\frac{3}{8}$ x $\frac{1}{4}$ x $\frac{1}{4}$, $\frac{3}{8}$ x $\frac{1}{4}$ x $\frac{3}{8}$, $\frac{3}{8}$ x $\frac{1}{4}$ x $\frac{1}{2}$.
Elbows, Side Outlet, $\frac{1}{2}$ inch and smaller.
Four-way Tees, $\frac{1}{2}$ inch and smaller.
Street Ells, $\frac{1}{4}$ and $\frac{3}{8}$.
Crosses, $\frac{1}{4}$, $\frac{3}{8}$ and $\frac{1}{2}$ inch.
Reducing Crosses, 1 inch and smaller.
Drop Ells and Tees, $\frac{1}{2}$ inch and smaller.
Caps, $\frac{1}{4}$ and $\frac{3}{8}$ inch.
Plugs, $\frac{1}{4}$ and $\frac{3}{8}$.
Locknuts, $\frac{1}{4}$, $\frac{3}{8}$ and $\frac{1}{2}$.
Reducing Couplings, $\frac{3}{8}$ x $\frac{1}{4}$ to $\frac{3}{4}$ x $\frac{3}{4}$ inclusive.
Extension Pieces, $\frac{3}{8}$ and $\frac{1}{2}$ inch.
R. and L. Couplings, $\frac{1}{4}$ and $\frac{3}{8}$.
R. H. Couplings, $\frac{1}{4}$ and $\frac{3}{8}$ inch.
R. and L. Elbows, $\frac{1}{4}$ inch.
R. and L. Return Bends, $\frac{3}{4}$ and 1 inch.
Waste Nuts, $\frac{3}{4}$ and smaller.
Chandelier Hooks, all sizes.
Return Bends, $\frac{3}{8}$ and $\frac{1}{2}$.
Wall Plates, all sizes.
45° Ells, $\frac{1}{2}$ inch and smaller.
Y's, $\frac{1}{2}$ and $\frac{3}{4}$ inch.

### CLASS C

Elbows, $\frac{1}{2}$ x $\frac{3}{4}$ and $\frac{1}{2}$.
Tees, $\frac{1}{2}$ and $\frac{1}{2}$ inch reducing.
Elbows. Side Outlet, $\frac{3}{4}$ and larger.
Street Ells, $\frac{1}{2}$, $\frac{3}{4}$ x $\frac{1}{2}$, $\frac{3}{4}$ and 1 x $\frac{3}{4}$ inch.
Crosses, $\frac{3}{4}$ inch and 1 inch straight.
Drop Ells, $\frac{3}{4}$ and larger.
Drop Tees, $\frac{3}{4}$ and larger.
Four-way Tees, $\frac{3}{4}$ and larger.
Caps, $\frac{1}{2}$, $\frac{3}{4}$ and 1.
Plugs, $\frac{1}{2}$, $\frac{3}{4}$ and 1 inch.
Locknuts, $\frac{3}{4}$, 1 and $1\frac{1}{4}$ inch.
Reducing Couplings, $\frac{3}{4}$ x $\frac{1}{2}$ to 1 inch inclusive.
R. and L. Couplings, $\frac{1}{2}$ and $\frac{3}{4}$.
R. H. Couplings, $\frac{1}{2}$ and $\frac{3}{4}$.
Extension Pieces, $\frac{3}{4}$ and larger.
Waste Nuts, 1 inch and larger.
Return Bends, $\frac{3}{4}$ and 1 inch.
45° Ells, $\frac{3}{4}$ to 2 inch inclusive.
Y's, 1 inch and larger.
Return Bends, R. & L., $1\frac{1}{4}$ inch and larger.
Elbows, R. and L., $\frac{3}{4}$ and 1 inch.

### CLASS D

Elbows and Tees, $\frac{3}{4}$ and 1 inch.
Crosses, $1\frac{1}{4}$ inch and larger.
Street Ells, 1 inch and larger.
Caps, $1\frac{1}{4}$ inch and larger.
Plugs, $1\frac{1}{4}$ inch and larger.
Locknuts, $1\frac{1}{4}$ inch and larger.
Reducing Couplings, $1\frac{1}{4}$ inch and larger.
R. H. Couplings, 1 and $1\frac{1}{4}$ inch.
Return Bends, $1\frac{1}{4}$ inch and larger.
R. and L. Couplings, 1 inch and larger.
45° Elbows, $2\frac{1}{2}$ inch and larger.
Straps, all sizes.
Elbows, R. and L., $1\frac{1}{4}$ inch and larger.
Such as have smaller outlets than $\frac{3}{4}$ inch to be classed as "C."

### CLASS E

Elbows and Tees, $1\frac{1}{4}$ inch and larger. Such fittings in this class, that have outlets smaller than 1 inch, to be classed as "D."

Right-Hand Couplings, $1\frac{1}{2}$ inch and 2 inch.

The run of Tees gives the size for the purpose of classification, and the outlet being larger does not change it.

### PRICE LIST

| Class. | A | B | C | D | E |
|---|---|---|---|---|---|
| Black, per lb | $0.30 | $0.20 | $0.16 | $0.13 | $0.11 |
| Galvanized, per lb | 0.37 | 0.27 | 0.23 | 0.20 | 0.18 |

# CAST IRON FITTINGS


ELBOW 45°


ELBOW


TEE


CROSS


RETURN BEND, CLOSE PATTERN


CAP

## FOR WROUGHT IRON PIPE

| Diameter of Pipe. | ½ | ¾ | 1 | 1¼ | 1½ | 2 | 2½ | 3 | 3½ | 4 | 4½ | 5 | 6 | 8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Elbows.....each | $0.06 | $0.08 | $0.10½ | $0.16 | $0.20 | $0.28 | $0.50 | $0.75 | $1.05 | $1.20 | $1.75 | $2.00 | $2.75 | $6.75 |
| " Right and Left. " | 0.07 | 0.09 | 0.12 | 0.18 | 0.23 | 0.32 | 0.60 | 0.85 | ..... | ..... | ..... | ..... | ..... | ..... |
| " Reducing..... " | 0.07 | 0.09 | 0.12 | 0.18 | 0.23 | 0.32 | 0.60 | 0.85 | 1.20 | 1.40 | 2.00 | 2.30 | 3.15 | 7.75 |
| " 45° ..... " | 0.07 | 0.10 | 0.12 | 0.19 | 0.24 | 0.34 | 0.60 | 0.90 | 1.25 | 1.45 | 2.20 | 2.50 | 3.45 | 8.50 |
| Tees..... " | 0.09 | 0.12 | 0.15 | 0.28 | 0.29 | 0.41 | 0.73 | 1.10 | 1.50 | 1.75 | 2.55 | 3.00 | 4.00 | 9.75 |
| " Reducing..... " | 0.10 | 0.14 | 0.17 | 0.27 | 0.33 | 0.47 | 0.83 | 1.25 | 1.75 | 2.00 | 2.95 | 3.50 | 4.60 | 11.25 |
| Bushings..... " | 0.04 | 0.05 | 0.06 | 0.07 | 0.09 | 0.14 | 0.21 | 0.30 | 0.40 | 0.50 | 0.75 | 0.93 | 1.25 | 2.75 |
| Caps..... " | ..... | ..... | ..... | ..... | ..... | 0.26 | 0.40 | 0.54 | 0.75 | 0.87 | 1.05 | 1.20 | 1.55 | 2.85 |
| Plugs..... " | ..... | ..... | ..... | ..... | ..... | ..... | 0.18 | 0.25 | 0.38 | 0.42 | 0.65 | 0.88 | 1.20 | 2.75 |
| Return Bends, Close Pattern..... " | 0.18 | 0.20 | 0.22 | 0.28 | 0.40 | 0.57 | 1.20 | 1.70 | ..... | ..... | ..... | ..... | ..... | ..... |
| Return Bends, Close Pattern, R. & L..... " | 0.21 | 0.23 | 0.26 | 0.33 | 0.46 | 0.66 | 1.40 | 1.95 | ..... | ..... | ..... | ..... | ..... | ..... |
| Return Bends, Open... " | ... | 0.26 | 0.30 | 0.40 | 0.55 | 0.80 | 1.35 | 2.20 | ..... | ..... | ..... | ..... | ..... | ..... |
| " " " R.&L. " | .... | 0.30 | 0.35 | 0.46 | 0.64 | 0.92 | 1.55 | 2.50 | ..... | ..... | ..... | ..... | ..... | ..... |

Right and Left and Left Hand Fittings not specified above will be charged 15 per cent. more than Right Hand Fittings.

## CAST IRON FLANGES



| Size of Pipe..... | ½ | ¾ | 1 | 1¼ | 1½ | 2 | 2½ | 3 | 3½ | 4 | 5 | 6 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 inch diameter.....each | $0.22 | 0.22 | 0.16 | .... | .... | .... | .... | .... | .... | .... | .... | .... | |
| 5 " " ..... " | .... | 0.30 | 0.30 | 0.30 | .... | .... | .... | .... | .... | .... | .... | .... | |
| 6 " " ..... " | .... | .... | 0.42 | 0.40 | 0.40 | .... | .... | .... | .... | .... | .... | .... | |
| 8 " " ..... " | .... | .... | .... | 0.95 | 0.85 | 0.90 | 0.90 | 0.90 | .... | .... | .... | .... | |
| 10 " " ..... " | .... | .... | .... | .... | .... | 2.15 | 2.00 | 1.80 | 1.50 | 1.50 | 1.50 | 1.50 | |

Flanges with other diameters can be supplied on short notice.

## HOOK PLATES



| Number of Pipes ..... | 1 | 2 | 3 | 4 | 5 | 6 | 8 | 10 |
|---|---|---|---|---|---|---|---|---|
| For 1 inch Pipe, 2½ inch centre to centre..... .each | $0.09 | 0.18 | 0.23 | 0.26 | 0.32 | 0.38 | 0.59 | 0.70 |
| " 1¼ " 3 " " " ..... " | 0.10 | 0.21 | 0.27 | 0.32 | 0.41 | 0.52 | 0.80 | 1.20 |
| " 1½ " 3½ " " " ..... " | 0.15 | 0.28 | 0.43 | 0.58 | 0.72 | 0.88 | 1.25 | 1.55 |
| " 2 " 4½ " " " ..... " | 0.22 | 0.43 | 0.65 | 0.90 | 1.15 | 1.35 | .... | .... |

# BRANCH TEES

## FOR BOX AND CIRCULATION COILS



END FEED



BACK FEED



BACK FEED

## BACK OR END FEED

### FOR 1 INCH PIPE—1¼, 2 AND 2½ INCH RUN

| Number of Branches..... | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|
| 1½ inch Run.....each | $1.00 | 1.15 | 1.30 | 1.45 | 1.75 | 2.20 | 2.45 | 2.90 | 3.00 | 4.75 |
| 2 " " ..... " | 1.15 | 1.35 | 1.60 | 1.85 | 2.10 | 2.45 | 2.75 | 3.40 | 4.00 | 5.10 |
| 2½ " " ..... " | 1.75 | 2.05 | 2.40 | 2.75 | 3.10 | 3.50 | 3.75 | 4.30 | 5.00 | 5.85 |

### FOR 1¼ INCH PIPE—2 AND 2½ INCH RUN

| Number of Branches.... | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 inch Run.....each | $1.50 | 1.90 | 2.40 | 2.90 | 3.30 | 3.90 | 4.50 | 5.25 | 5.85 | 6.50 |
| 2½ " " ..... " | 1.95 | 2.40 | 2.85 | 3.55 | 3.95 | 4.20 | 4.95 | 6.15 | 6.85 | 7.65 |

### FOR 1½ INCH PIPE—2½ AND 3 INCH RUN

| Number of Branches.... | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|
| 2½ inch Run.....each | $2.85 | 3.45 | 4.15 | 5.00 | 5.75 | 6.50 | 7.00 | 8.25 | 9.25 | 10.50 |
| 3 " " ..... " | 3.15 | 3.80 | 4.60 | 5.50 | 6.25 | 7.25 | 7.75 | 9.00 | 10.00 | 11.50 |

NOTE—In ordering, be particular to state Tapped Right or Left Hand and size of Run. When both ends or one end and back are tapped, add one outlet to give number for the price.

## STRAPS



No. 27

## WASTE NUTS



No. 28

## WALL PLATES



No. 29

| Size..... | ¼ | ⅜ | ½ | ¾ | 1 | 1¼ | 1½ | 2 inch. |
|---|---|---|---|---|---|---|---|---|
| No. 27—Approximate weight per 100 | 2½ | 2⅞ | 3½ | 6 | 10 | 13 | 16½ | 21½ lbs. |
| " 28— " " " " | 5 | 7 | 10 | 10½ | 14½ | .. | ... | ... " |
| " 29— " " " " | .. | 14 | .. | ... | ... | .. | ... | ... " |

Nos. 27, 28 and 29.....price per pound $0.20

ACK FEED

| | 10 | 12 |
|---|---|---|
| .90 | 3.00 | 4.75 |
| .40 | 4.00 | 5.10 |
| .30 | 5.00 | 5.85 |

| | 10 | 12 |
|---|---|---|
| 25 | 5.85 | 6.50 |
| 15 | 6.85 | 7.65 |

| | 10 | 12 |
|---|---|---|
| 25 | 9.25 | 10.50 |
| 00 | 10.00 | 11.50 |

When both ends or one

## PLATES



No. 29

| | |
|---|---|
| 1½ | 2 inch. |
| 16½ | 21½ lbs. |
| ... | ... " |
| ... | ... " |
| price per pound | $0.20 |

# GLOBE AND ANGLE VALVES




## STANDARD

### BRASS GLOBE AND ANGLE VALVES

| Size | ¼ | ⅜ | ½ | ¾ | 1 | 1¼ | 1½ | 2 | 2½ | 3 | in. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Each | $0.60 | 0.75 | 1.00 | 1.35 | 1.80 | 2.80 | 3.90 | 5.90 | 11.75 | 16 00 | |

## JENKINS' PATTERN

### BRASS GLOBE AND ANGLE VALVES

| Size | ¼ | ⅜ | ½ | ¾ | 1 | 1¼ | 1½ | 2 | 2½ | 3 | in. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Each | $1.10 | 1.25 | 1.60 | 2.20 | 2.80 | 4.00 | 5.50 | 8.00 | 15.75 | 22.00 | |

## GENUINE JENKINS' BROS.

### BRASS GLOBE AND ANGLE VALVES

| Size | ¼ | ⅜ | ½ | ¾ | 1 | 1¼ | 1½ | 2 | 2½ | 3 | in. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Each | $1.10 | 1.25 | 1.60 | 2.20 | 2.80 | 4.00 | 5.50 | 8.00 | 15.75 | 22.00 | |

## JENKINS' DISCS



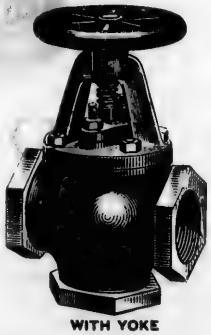
| Size | ¼ | ⅜ | ½ | ¾ | 1 | 1¼ | 1½ | 2 | 2½ | 3 | in. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Each | $0.06 | 0.08 | 0.08 | 0.10 | 0.12 | 0.18 | 0.24 | 0.36 | 0.48 | 0.66 | |

The Disc as shown in cut will fit either imitation or genuine valves. The imitation valve disc has a round hole (not flattened at sides) and will not fit the genuine valve.

## IRON BODY GLOBE AND ANGLE VALVES



WITHOUT YOKE



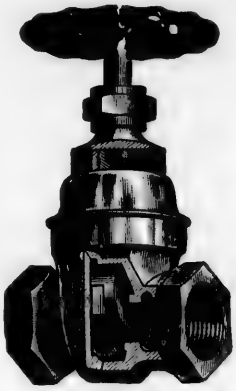
WITH YOKE

### BRASS MOUNTED, WITHOUT YOKE

| Size | 1½ | 2 | 2½ | 3 | in. |
|---|---|---|---|---|---|
| Screwed Ends, each | $3.50 | 5.40 | 7.35 | 9.80 | |
| Flanged Ends, " | 4.80 | 7.00 | 9.00 | 12.50 | |

### BRASS MOUNTED, WITH YOKE

| Size | 2½ | 3 | 3½ | 4 | 4½ | 5 | 6 | in. |
|---|---|---|---|---|---|---|---|---|
| Screwed Ends | $9.00 | 12.50 | 15.25 | 19.00 | 24.00 | 27.00 | 37.50 | |
| Flanged Ends | 10.75 | 15.00 | 18.50 | 22.50 | 27.50 | 31.00 | 42.00 | |



# STRAIGHT-WAY VALVES

## BRASS, WITH STATIONARY SPINDLES

Screwed Top, Double Gate.

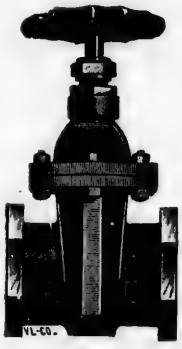
| Size | | ½ | ¾ | 1 | 1¼ | 1½ | 2 | 2½ | 3 inch. |
|---|---|---|---|---|---|---|---|---|---|
| Screwed Ends | each | $1.30 | 1.75 | 2.25 | 3.25 | 4.25 | 6.25 | 11.50 | 16.00 |
| Flanged " | " | 2.50 | 3.00 | 4.00 | 5.00 | 7.50 | 10.00 | 16.00 | 20.00 |
| Sliding Stem and Lever | " | 2.30 | 2.95 | 3.65 | 4.85 | 6.05 | 8.25 | 13.75 | 18.50 |

## PEET OR STRAIGHT-WAY VALVES

### WITH RISING SPINDLES

| Size | | ½ | ¾ | 1 | 1¼ | 1½ | 2 | 2½ | 3 inch. |
|---|---|---|---|---|---|---|---|---|---|
| Screwed Ends | each | $1.30 | 1.75 | 2.25 | 3.25 | 4.25 | 6.25 | 11.50 | 16.00 |
| Flanged " | " | 2.50 | 3.00 | 4.00 | 5.00 | 7.50 | 10.00 | 16.00 | 20.00 |
| Sliding Stem and Lever | " | 2.30 | 2.95 | 3.65 | 4.85 | 6.05 | 8.25 | 13.75 | 18.50 |

## IRON-BODY STRAIGHT-WAY VALVES



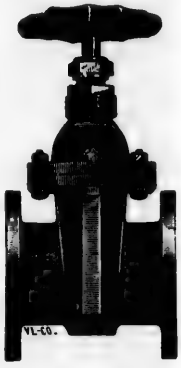
SCREWED

Brass Mounted, Screwed Top.

| Diameter of Opening | | 2 | 2½ | 3 | 3½ | 4 inch. |
|---|---|---|---|---|---|---|
| Screwed Ends | each | $7.00 | 10.00 | 12.00 | 16.00 | 18.00 |
| Flanged " | " | 7.00 | 10.00 | 12.00 | 16.00 | 18.00 |
| Sliding Stem and Lever | " | 9.00 | 12.25 | 14.50 | 18.75 | 21.00 |

Brass Mounted, Flanged Top.

| Diameter of Opening | | 3 | 3½ | 4 | 5 | 6 inch. |
|---|---|---|---|---|---|---|
| Screwed Ends | each | $12.00 | 16.00 | 18.00 | 25.00 | 32.00 |
| Flanged " | " | 12.00 | 16.00 | 18.00 | 24.00 | 31.00 |
| Sliding Stem and Lever | " | 14.50 | 18.75 | 21.00 | .... | .... |



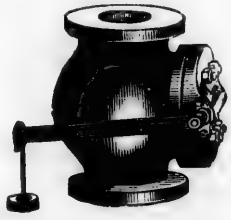
FLANGED

## IRON-BODY WATER GATES

Flanged Top, Double Gate, to bear Extra Heavy Pressure on either face.

| Diameter of Opening | | 3 | 4 | 5 | 6 | 7 | 8 | 10 | 12 inch. |
|---|---|---|---|---|---|---|---|---|---|
| Bell Ends | each | $15.00 | 19.00 | 25.00 | 30.00 | 36.00 | 42.00 | 60.00 | 80.00 |

Valves 14 to 48 inch and Indicator Valves and Posts for Sprinkler Systems. Prices on application.



No. 240, BACK PRESSURE VALVE



No. 244, FOOT VALVE

| Size | | 2 | 2½ | 3 | 3½ | 4 | 5 | 6 inch. |
|---|---|---|---|---|---|---|---|---|
| No. 240—Back Pressure Valve, Screwed | each | $11.00 | 13.00 | 15.00 | 19.00 | 22.50 | 33.50 | 43.00 |
| " 241— " " " Flanged | " | 12.75 | 15.00 | 17.50 | 22.00 | 26.00 | 37.00 | 47.00 |
| " 244—Foot Valve, Painted, Screwed | " | 0.90 | 1.30 | 1.85 | 2.60 | 2.80 | 4.25 | 7.00 |
| " 245— " " Galvanized, Screwed | " | 1.45 | 2.00 | 2.70 | 3.00 | 4.25 | 6.50 | 10.00 |

# VALVES

## BRASS CHECK VALVES

### HORIZONTAL, ANGLE OR VERTICAL

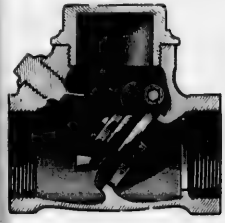


| Size | ¼ | ⅜ | ½ | ¾ | 1 | 1¼ | 1½ | 2 | 2½ | 3 | in. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Each | $0.50 | 0.60 | 0.85 | 1.15 | 1.55 | 2.30 | 3.25 | 5.20 | 10.00 | 14.00 | |

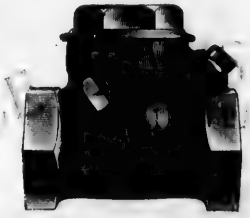
### JENKINS' PATTERN

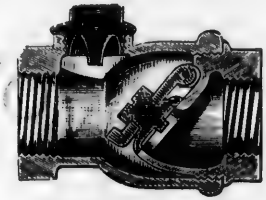
| Size | ¼ | ⅜ | ½ | ¾ | 1 | 1¼ | 1½ | 2 | in. |
|---|---|---|---|---|---|---|---|---|---|
| Each | $1.10 | 1.20 | 1.30 | 1.90 | 2.60 | 3.60 | 5.00 | 7.50 | |

## BRASS STRAIGHT-WAY SWINGING CHECK VALVES



PRATT & CADY PATTERN



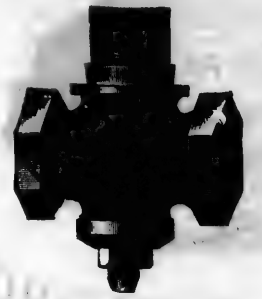


STANDARD PATTERN

| Size | ⅜ | ½ | ¾ | 1 | 1¼ | 1½ | 2 | 2½ | 3 | in. |
|---|---|---|---|---|---|---|---|---|---|---|
| Screwed, each | $1.25 | 1.30 | 1.75 | 2.25 | 3.25 | 4.25 | 6.25 | 11.50 | 16.00 | |

## BRASS STOP COCKS

### SQUARE OR FLAT HEAD



| Size | ¼ | ⅜ | ½ | ¾ | 1 | 1¼ | 1½ | 2 | 2½ | 3 | in. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Each | $0.70 | 0.75 | 1.10 | 1.50 | 2.25 | 3.75 | 4.80 | 7.25 | 14.00 | 20.00 | |

## IRON STOP COCKS

### SQUARE OR FLAT HEAD

| Size | ½ | ¾ | 1 | 1¼ | 1½ | 2 | 2½ | 3 | 4 | in. |
|---|---|---|---|---|---|---|---|---|---|---|
| All Iron, each | $0.90 | 1.05 | 1.30 | 1.60 | 1.95 | 2.70 | 4.40 | 6.75 | 15.50 | |
| " with Brass Washers, " | 1.00 | 1.20 | 1.55 | 1.95 | 2.35 | 3.20 | 5.15 | 7.75 | 19.00 | |

## BRASS SAFETY VALVES

### CROSS OR ANGLE PATTERN



| Size | ½ | ¾ | 1 | 1¼ | 1½ | 2 | 2½ | 3 in. |
|---|---|---|---|---|---|---|---|---|
| Screwed End, each | $2.75 | 3.50 | 5.00 | 7.00 | 8.50 | 12.00 | 22.00 | 30.00 |

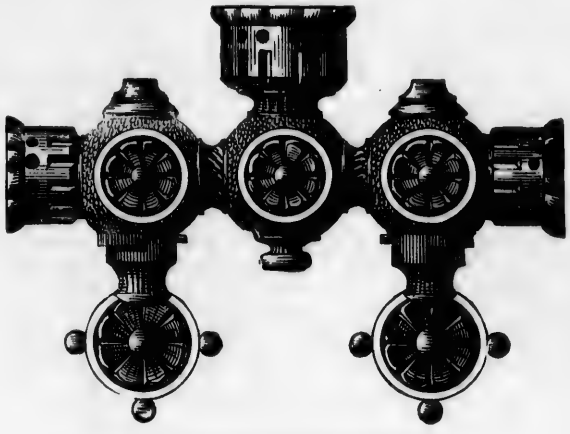
## IRON BODY SAFETY VALVES

### BRASS MOUNTED, CROSS OR ANGLE PATTERN

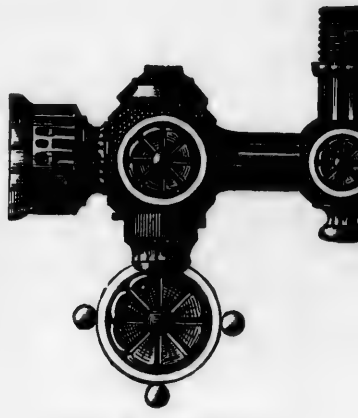
| Size | 2 | 2½ | 3 | 3½ | 4 | in. |
|---|---|---|---|---|---|---|
| Screwed, each | $7.80 | 13.25 | 17.25 | 23.00 | 28.75 | |
| Flanged " | 10.25 | 16.00 | 21.50 | 27.50 | 34.00 | |

# GAS FITTERS' GOODS

## FOR IRON PIPE



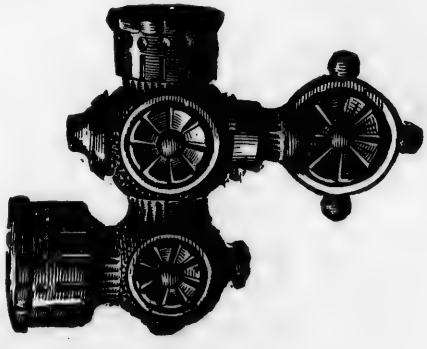
No. 1, 2-LIGHT PENDANT COCK



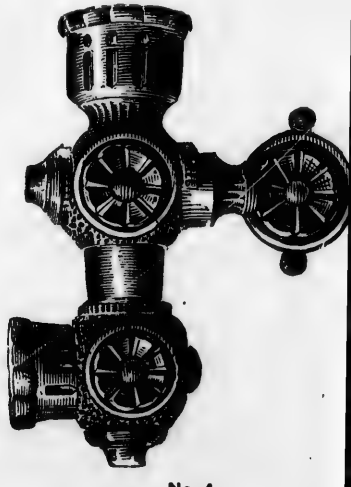
No. 2, L BURNER COCK

| Size | | ¼ x ⅛ | ⅜ x ⅛ | ⅜ x ¼ |
|---|---|---|---|---|
| No. 1 | each | $0.67 | 0.81 | 0.81 |

| Size | | ⅛ | ¼ |
|---|---|---|---|
| No. 2 | each | $0.38 | 0.44 |

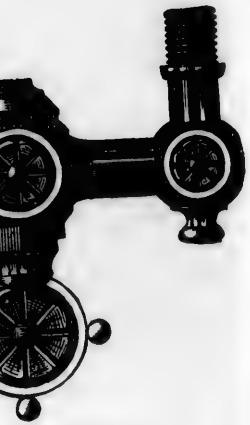


No. 3



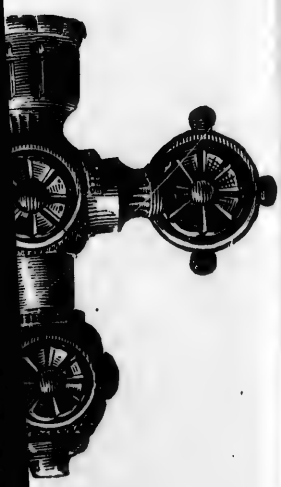
No. 4

| Size | | ⅛ x ⅛ | ¼ x ⅛ | ¼ x ¼ | ⅜ x ⅛ |
|---|---|---|---|---|---|
| No. 3—L Stiff Pendant Cock | each | $0.37 | 0.37 | 0.44 | 0.45 |
| " 4—Revolving " " | " | ..... | 0.58 | 0.58 | 0.67 |



BURNER COCK

| | | | |
|---|---|---|---|
| ..... | ⅛ | ¼ | ⅜ |
| each | $0.38 | 0.44 | 0.50 |

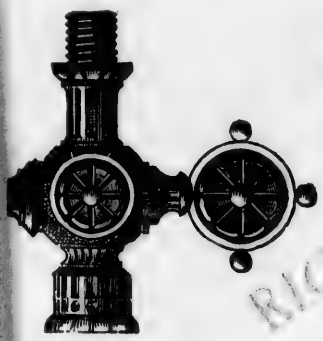


No. 4

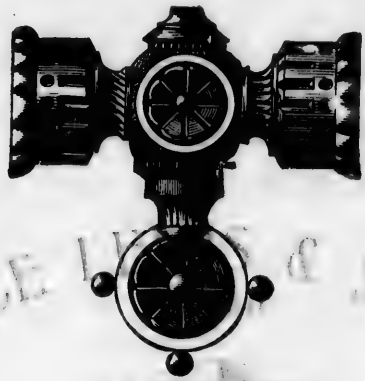
| | | |
|---|---|---|
| x ¼ | ⅜ x ⅛ | ⅜ x ½ |
| .44 | 0.45 | 0.45 |
| .58 | 0.67 | 0.67 |

# GAS FITTERS' GOODS

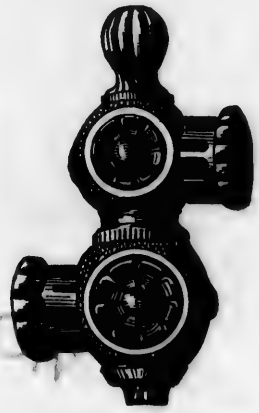
## FOR IRON PIPE



No. 5, PILLAR COCK



No. 6, STRAIGHT COCK



No. 7, MIDDLE SWING

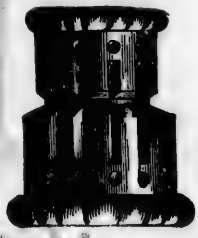
| Size | ⅛ | ¼ | ⅜ | ½ | ¼ × ⅛ | ⅜ × ¼ inch. |
|---|---|---|---|---|---|---|
| No. 5—Pillar Cocks..... each | $0.27 | 0.34 | 0.44 | 0.54 | .... | .... |
| " 6—Straight Cocks..... " | 0.30 | 0.38 | 0.45 | .... | 0.37 | 0.42 |
| " 7—Middle Swings..... " | 0.31 | 0.36 | .... | .... | 0.36 | .... |
| " 8—Universal " ..... " | 0.62 | 0.66 | .... | .... | 0.62 | 0.66 |



No. 9, END NOZZLE



No. 10, SIDE NOZZLE



No. 11, STIFF JOINT

| Size | ⅛ × ⅛ | ¼ × ⅛ | ⅜ × ⅛ | ⅜ × ¼ | ⅜ × ⅜ | ½ × ¼ | ½ × ⅜ inch. |
|---|---|---|---|---|---|---|---|
| No. 9—End Nozzles..... each | $0.10 | 0.14 | 0.14 | .... | .... | .... | .... |
| " 10—Side " ..... " | 0.10 | 0.14 | 0.14 | .... | .... | .... | .... |
| " 11—Stiff Joints..... " | .... | .... | 0.12 | 0.13 | 0.14 | 0.17 | 0.17 |



No. 12, BRASS PILLAR WITH LAVA TIPS



No. 13, METAL TIPS



No. 14, LAVA TIPS

| | | |
|---|---|---|
| No. 12—Brass Pillars with Lava Tips ..... per gross | | $3.00 |
| " 13—Metal Tips, Excavated Heads..... " | | 3.00 |
| " 14—Lava " " " ⅛ to 10 feet..... " | | 1.25 |

# COMPRESSION HOSE BIBBS



WITHOUT STUFFING BOX

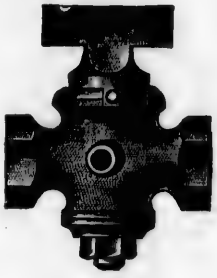
FOR IRON PIPE

| Size | | ½ | ⅝ | ¾ |
|---|---|---|---|---|
| Finished with Stuffing Box | each | $1.17 | 1.35 | 2.10 |
| Finished without Stuffing Box | " | 1.00 | 1.17 | 1.85 |

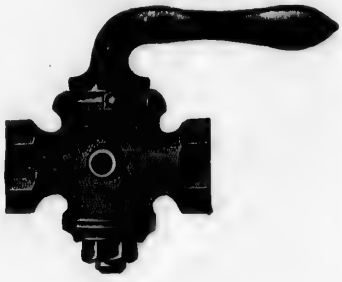
⅝ Hose Bibbs are screwed for ½ inch Iron Pipe.

## STOP AND WASTE COCKS

FOR IRON PIPE



T HANDLE



L HANDLE

| Size | | ⅜ | ½ | ¾ | 1 inch. |
|---|---|---|---|---|---|
| T Handle | each | $0.95 | 1.17 | 1.88 | 2.75 |
| L Handle | " | 0.93 | 1.17 | 1.88 | 2.75 |

## CAST IRON ADJUSTABLE STOP COCK BOXES

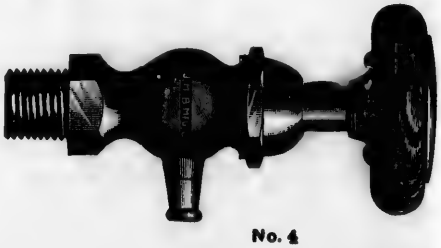
FOR STREET SERVICES

Prices on application.

## COMPRESSION GAUG OCKS



No. 1



No. 4

| Size | | ½ | ¾ inch Pipe. |
|---|---|---|---|
| No. 1—Wood Wheel, without Stuffing Box, Rough | each | $1.00 | 1.10 |
| " 2— " " with " " " | " | 1.25 | 1.35 |
| " 3— " " without " " Finished | " | 1.00 | 1.10 |
| " 4— " " with " " " | " | 1.25 | 1.35 |

# DUPLEX GAUGE COCKS

## RUBBER VALVES



No. 558

| Size | | ½ | ¾ inch. |
|---|---|---|---|
| No. 558—Duplex Gauge Cocks | each | $0.90 | 1.00 |

## BRASS AIR OR PET COCKS



No. 584—T HANDLE



No. 586—LEVER HANDLE

| Size | | ⅛ | ¼ | ⅜ | ½ inch. |
|---|---|---|---|---|---|
| No. 584—T Handle | each | $0.40 | 0.45 | 0.50 | 0.60 |
| " 586—Lever Handle | | | 0.60 | 0.65 | 0.75 |



## BRASS STEAM WHISTLES

| Diameter of Bell | | 1 | 1½ | 2 | 2½ | 3 | 3½ inch. |
|---|---|---|---|---|---|---|---|
| Size of Iron Pipe | | ¾ | ¾ | ¾ | ¾ | ¾ | ¾ " |
| Without Valve | each | $1.70 | 2.50 | 3.25 | 4.50 | 6.00 | 8.50 |
| With Valve | " | .... | 4.00 | 4.75 | 6.50 | 8.00 | 11.00 |

| Diameter of Bell | | 4 | 4½ | 5 | 6 | 8 inch. |
|---|---|---|---|---|---|---|
| Size of Iron Pipe | | 1 | 1 | 1¼ | 1½ | 2 " |
| Without Valve | each | $11.00 | 14.50 | 18.00 | 24.00 | 65.00 |
| With Valve | " | 14.00 | 17.25 | 22.00 | 30.00 | 80.00 |

## WHISTLE VALVES

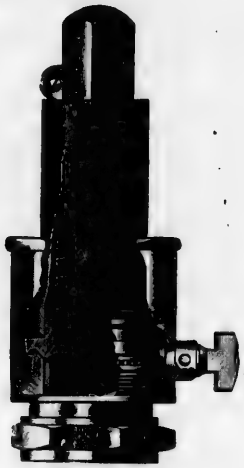
### STEAM METAL

| Size | | ½ | ¾ | 1 | 1¼ | 1½ | 2 | 2½ | 3 inch. |
|---|---|---|---|---|---|---|---|---|---|
| Price | each | $2.25 | 2.75 | 3.25 | 4.00 | 5.50 | 9.50 | 20.00 | 30.00 |

# POP SAFETY VALVES

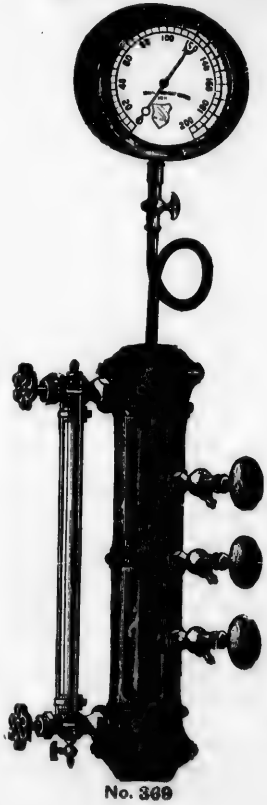


No. 359



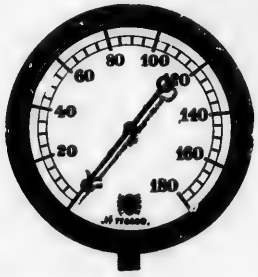
No. 360

| Size | 1 | 1¼ | 1½ | 2 | 2½ | 3 inch. |
|---|---|---|---|---|---|---|
| No. **359**—Double Seat for Portable Engines | $12.00 | 15.00 | ..... | ..... | ..... | ..... |
| " **360**—Consolidated, for Stationary Engines | 12.00 | 15.00 | 20.00 | 30.00 | 50.00 | 65.00 |
| " **361**— " with Cover " | 13.00 | 16.00 | 21.00 | 31.00 | 51.00 | 66.00 |



No. 369

## STEAM GAUGES




## PRESSURE AND VACUUM GAUGES

Pressure Gauges, with Iron or Brass Case and Brass Rings.

| Diameter of Dial | 2½ | 4 | 5 | 5½ | 6 | 8½ inch. |
|---|---|---|---|---|---|---|
| No. **361**—Japanned Case, Finished Ring | .... | $5.00 | 5.00 | 7.00 | 9.00 | 20.00 |
| " **362**— " " Nickel-Plated " | .... | 5.50 | 5.50 | 7.00 | 9.00 | 21.00 |
| " **363**—Finished Brass Case and Ring | $6.50 | 7.50 | 9.00 | 11.00 | 14.00 | 27.00 |
| " **364**—Nickel-plated " " | 7.50 | 8.50 | 10.00 | 12.50 | 16.00 | 30.00 |
| " **365**—Japanned Case, Vacuum Gauge | .... | .... | 9.00 | 11.00 | 14.00 | 27.00 |

## WATER COLUMNS

No. **368**—Light Pattern, Cast Iron Column, with 5 inch I. C. Steam Gauge, No. 3 Water Gauge, 3½ inch Compression Cocks, Syphon and Cock, complete ..... $27.00

No. **369**—Heavy Pattern, Cast Iron Column, with 5 inch I. C. Steam Gauge, No. 3 Water Gauge, 3½ inch Compression Cocks, Syphon and Cock, complete ..... 29.00

## COMPRESSION WATER GAUGES



No. 0

| | | |
|---|---|---|
| No. 0—Round Body with Wood Wheels, two Guards, ½ x 12 inch Glass, ¼ inch I. P. Connections | each | $2.90 |
| " 1— " " Iron " " ⅜ x 12 " ¼ " " " | " | 2.75 |
| " 2— " " Wood " " ⅜ x 12 " ⅜ " " " | " | 3.50 |
| " 3— " " Iron " " ⅜ x 12 " ⅜ " " " | " | 3.00 |
| " 4—Finished Round Body, with Wood Wheels, two Guards, ½ x 12 inch Glass, ½ inch I. P. Connections | " | 4.25 |
| " 4½-Nickel-Plated " " " " " " " " | " | 4.65 |

## SCOTCH WATER GAUGE GLASSES

## GAUGE GLASSES

| Length | 10 | 12 | 14 | 15 | 16 | 18 | 20 | 22 | 24 | 36 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ¼ inch Diameter per doz. | .... | $0.70 | 0.80 | .... | .... | .... | .... | .... | .... | .... | |
| ⅜ " " " " | .... | 0.90 | 1.05 | 1.15 | 1.20 | 1.35 | .... | .... | .... | .... | |
| ½ " " " " | $1.10 | 1.20 | 1.30 | .... | 1.50 | 1.65 | 1.80 | 2.10 | 2.40 | 3.40 | |

## RED REFLECTING GAUGE GLASSES

| Length | 12 | 14 | 16 | 18 | inch. |
|---|---|---|---|---|---|
| ¼ inch Diameter per doz. | $2.40 | 2.75 | .... | .... | |
| ⅜ " " " " | 2.60 | 3.00 | 3.35 | 3.70 | |
| ½ " " " " | .... | .... | 4.35 | 4.95 | |

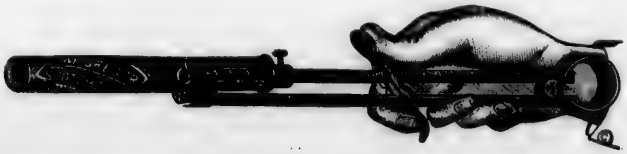
## GAUGE GLASS CUTTERS



No. 1—Rogers' Favorite Gauge Glass Cutters ..... per doz. $4.15



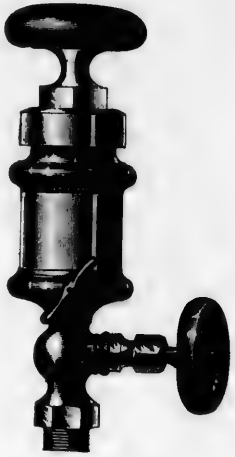
No. 2—Brockton's Gauge Glass Cutters ..... per doz. 8.25



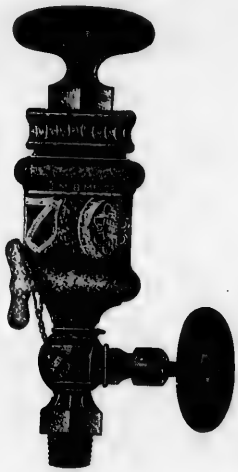
No. 3—Chesterton's Gauge Glass Cutters ..... per doz. 30.00

# CYLINDER LUBRICATORS

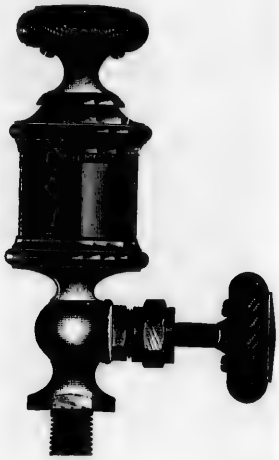
## WITH PATENT METALLIC DISC, CAP AND DRAIN VALVE



No. 451



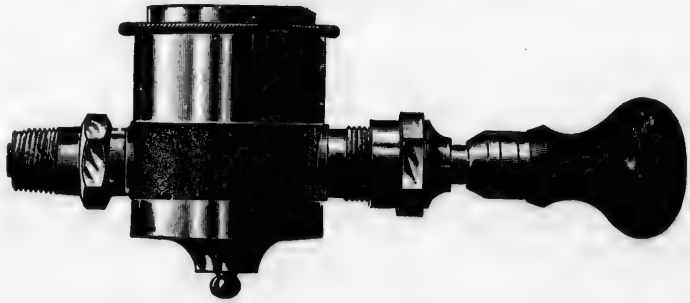
No. 452



No. 453

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Diameter of Cup | | 1 | 1¼ | 1½ | 2 | 2½ | 3 inch. |
| Size of Shank, I. P. Thread | | ⅛ | ⅛ | ⅛ | ¼ | ¼ | ¾ |
| No. 451—With Wood Wheels | each | .... | .... | $3.25 | 3.75 | 4.75 | 5.75 |
| " 452— " " " | " | .... | .... | 2.75 | 3.50 | 4.50 | .... |
| " 453— " " " | " | $2.00 | 2.20 | .... | .... | .... | .... |

## CASE'S PATENT HAND CYLINDER OIL PUMP



| Nos. | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| Size of Bowl | 2¼ x 2¼ | 2½ x 2½ | 2¾ x 2¾ | 3½ x 3½ inch. |
| Capacity | ¼ Pint | ½ Pint | ½ Pint | 1 Pint |
| Finished each | $3.50 | 4.25 | 5.00 | 7.50 |
| Nickel-Plated " | 4.00 | 5.00 | 6.00 | 8.50 |

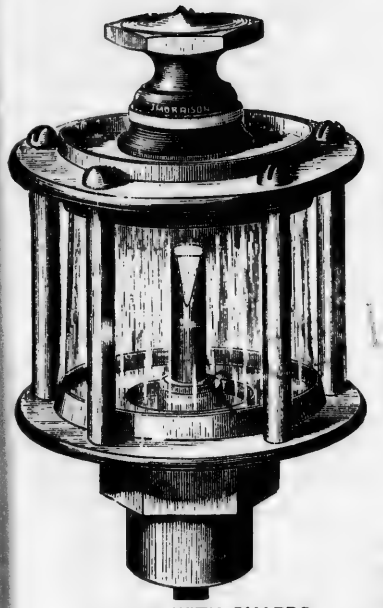


No. 453

| | |
|---|---|
| 2½ | 3 inch. |
| ½ | ¾ |
| 4.75 | 5.75 |
| 4.50 | .... |
| .... | .... |

| | |
|---|---|
| 4 | |
| 2¾ | 3½ x 3½ inch. |
| int | 1 Pint |
| 00 | 7.50 |
| 00 | 8.50 |

# GLASS OILERS



No. 499, WITH GUARDS

**No. 499**

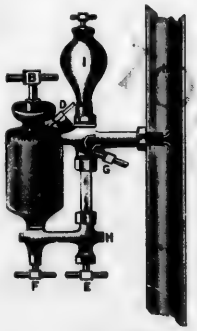
| Size | 1x1 | 1¼x1¼ | 1½x1½ | 2x2 | 2½x2½ | 3x3 inch. |
|---|---|---|---|---|---|---|
| Size of Shank | ⅛ | ¼ | ⅜ | ½ | ½ or ¾ | ½ or ¾ " |
| Each | $1.65 | 1.90 | 2.20 | 3.30 | 5.50 | 6.60 |

**No. 501**

Plain Glass Shell, Brass Caps and Plugs.

| Size | 1¼x1¼ | 1½x1½ | 2x2 | 2½x2½ inch. |
|---|---|---|---|---|
| Each | $0.95 | 1.10 | 1.70 | 2.90 |

## AUTOMATIC SIGHT FEED CYLINDER LUBRICATORS

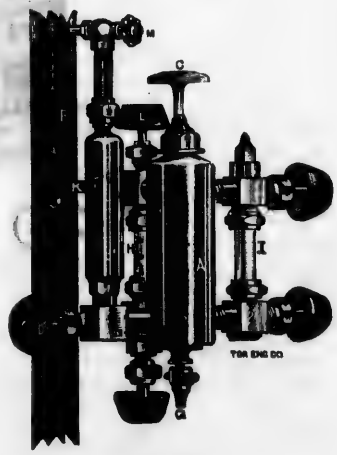


**No. 2231**

Single Sight Feed.

Suitable for Portable or Stationary Engines.

| Capacity | ⅛ | ½ | 1 pints. |
|---|---|---|---|
| Brass, Polished.....each | $5.00 | 5.50 | 9.00 |
| " Plated..... " | 5.50 | 6.50 | 10.00 |



**No. 441**

For Stationary or Marine Engines.

| Capacity | ¼ | ½ | 1 | 2 pints. |
|---|---|---|---|---|
| Brass, Polished.....each | $17.00 | 22.00 | 30.00 | 45.00 |
| " Plated..... " | 20.00 | 25.00 | 35.00 | 50.00 |

The Pint Cup is made with or without Standard; the 2 Pint with Standard.

# OIL AND GREASE CUPS



## PLAIN OIL CUPS

| | | | | | | |
|---|---|---|---|---|---|---|
| Diameter of Cup | ¾ | ⅞ | 1 | 1⅛ | 1¼ | 1½ inch. |
| Size of Shank for Iron Pipe | ⅛ | ¼ | ¼ | ¼ | ¼ | ⅜ " |
| Price.....each | $0.30 | 0.35 | 0.40 | 0.50 | 0.60 | 0.90 |

| | | | | | |
|---|---|---|---|---|---|
| Diameter of Cup | 1¾ | 2 | 2¼ | 2½ | 3 inch. |
| Size of Shank for Iron Pipe | ⅜ | ½ | ½ | ½ | ½ " |
| Price.....each | $1.25 | 1.75 | 2.25 | 2.75 | 4.50 |



No. 1

## COMPRESSION GREASE CUPS

| | | | | |
|---|---|---|---|---|
| Outside Diameter | 1¼ | 1½ | 2 | 2½ inch. |
| No. 1—Rough.....each | $0.70 | 0.80 | 1.20 | 1.60 |
| " 2—Finished..... " | 1.50 | 2.00 | 2.50 | 3.00 |



No. 2

## NEEDLE SHAFTING OILERS



No. 1



No. 3



No. 6



No. 8

| | Diameter of Bottles inches. | Capacity in ounces. | Price per dozen. |
|---|---|---|---|
| No. 1—Round | 2 | 3 | $3.00 |
| " 2— " Flat Side | 2 | 2 | 3.00 |
| " 3— " | 1¼ | 1 | 3.00 |
| " 3— " | 2 | 1¼ | 3.00 |
| " 3— " | 2¼ | 3 | 3.00 |
| " 3— " | 3 | 5 | 3.60 |
| " 6— " Flat Top | 2¾ | 2½ | 3.00 |
| " 8— " Flat Side | 2¾ | 2½ | 3.00 |
| " 10— " " | 3¾ | 2 | 3.60 |

The above bottles are made of the best White Flint Glass, they are ground perfectly air-tight inside the necks and are fitted with Wood Plugs and Coppered Iron Wires.

| 1¼ | 1½ inch. |
|---|---|
| ¼ | ⅛ " |
| 0.60 | 0.90 |

| 2½ | 3 inch. |
|---|---|
| ½ | ⅓ " |
| 2.75 | 4.50 |



No. 2



No. 8

| ' in | Price per dozen. |
|---|---|
| | $3.00 |
| | 3.00 |
| | 3.00 |
| | 3.00 |
| | 3.00 |
| | 3.60 |
| | 3.00 |
| | 3.00 |
| | 3.60 |

ight inside the necks

# OILERS





## SEWING MACHINE OILERS

ZINC

| No | 0 |
|---|---|
| Per dozen | $0.65 |

One dozen in a box.



## ZINC SCREW OILERS

| Nos | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| Per dozen | $0.75 | 0.95 | 1.15 | 1.35 |

## BRASS SCREW OILERS

| Nos | 22 | 23 |
|---|---|---|
| Per dozen | $3.50 | 4.00 |

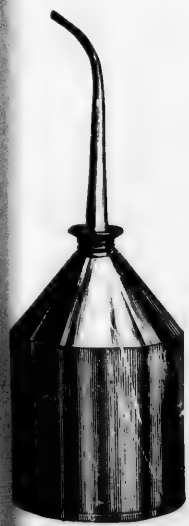
## PARAGON ZINC SCREW OILERS

| Nos | 42 | 43 |
|---|---|---|
| Per dozen | $2.15 | 2.30 |

## PARAGON ALL-BRASS SCREW OILERS

| Nos | 52 | 53 |
|---|---|---|
| Per dozen | $4.50 | 5.25 |

Half-dozen in a box.



Nos. 475 and 476



No. 473

## MOWING MACHINE OILERS

| No | 473 |
|---|---|
| Per dozen | $1.30 |

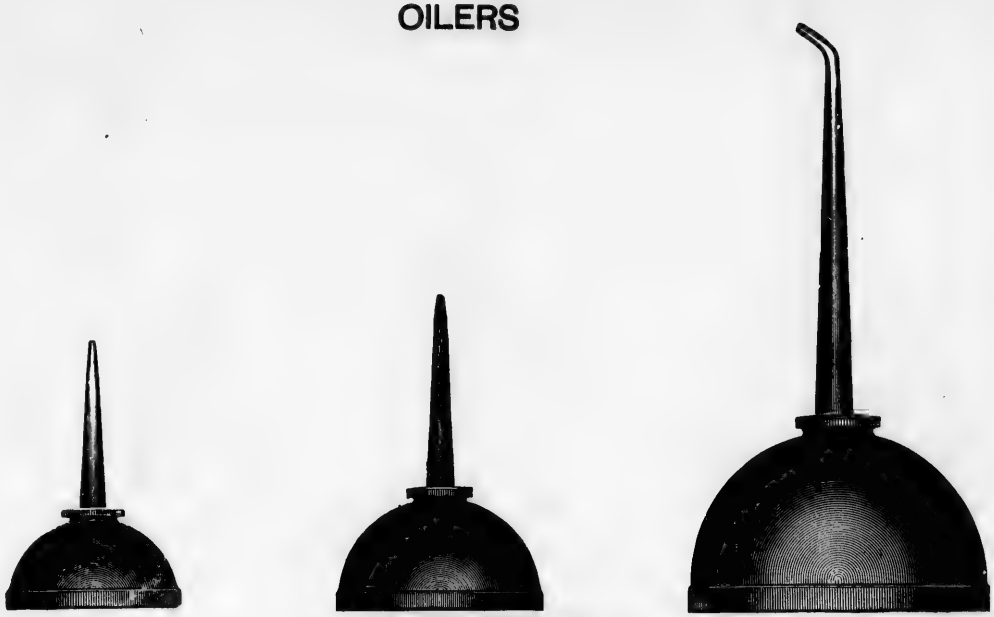
One dozen in a box.



No. 100

No. 475—Threshing Machine Oilers, 1 Pint, Tin, with Bent or Straight Spouts ..... per dozen $1.15
" 476— " " " " 1 " Copper-plated, Bent or Straight Spouts ..... " 2.00
" 100—Steel Oiler, 3¾ inch diameter, 3 inch Nozzle ..... " 6.90

# OILERS



WITH IMPROVED SPRING BOTTOMS

## COPPER-PLATED STEEL

| Nos | 12 | 13 | 13A | 14 | 14A | 14AA | 14B | 15 | 15A | 16 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diameter | 2⅜ | 3⅜ | 3⅜ | 3⅜ | 3⅜ | 3½ | 3⅜ | 4¼ | 4¼ | 4½ | inch. |
| Length of Spout | 2½ | 3 | 5 | 9 | 3 | 5 | 9 | 3 | 5 | 9 | " |
| Per dozen | $4.50 | 5.50 | 6.00 | 6.50 | 7.50 | 8.00 | 8.50 | 9.25 | 9.75 | 10.50 | |

## NICKEL-PLATED

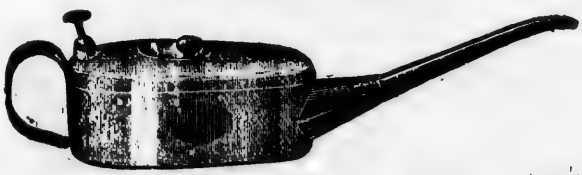
| Nos | 120 | 130 | 140AA | 160 | |
|---|---|---|---|---|---|
| Diameter | 2⅜ | 3⅜ | 3¼ | 4½ | inch. |
| Length of Spout | 2½ | 3 | 5 | 9 | " |
| Per dozen | $6.50 | 8.00 | 10.75 | 14.00 | |

## BRASS

| Nos | 1120 | 1130 | 1140 | 1140A | 1140B | 1150 | 1160 | |
|---|---|---|---|---|---|---|---|---|
| Diameter | 2⅜ | 3⅜ | 3⅜ | 3½ | 3⅜ | 4¼ | 4½ | inch. |
| Length of Spout | 2½ | 3 | 9 | 3 | 9 | 3 | 9 | " |
| Per dozen | $6.50 | 8.00 | 9.20 | 10.20 | 11.20 | 12.00 | 14.00 | |

These Oilers are made of very heavy stock and handsomely finished. Spouts 5 inches and under are straight, 9 inches are bent as shown above. 3¾ inch diameter and under, one dozen; others half-dozen in a box.

## HORIZONTAL OILERS



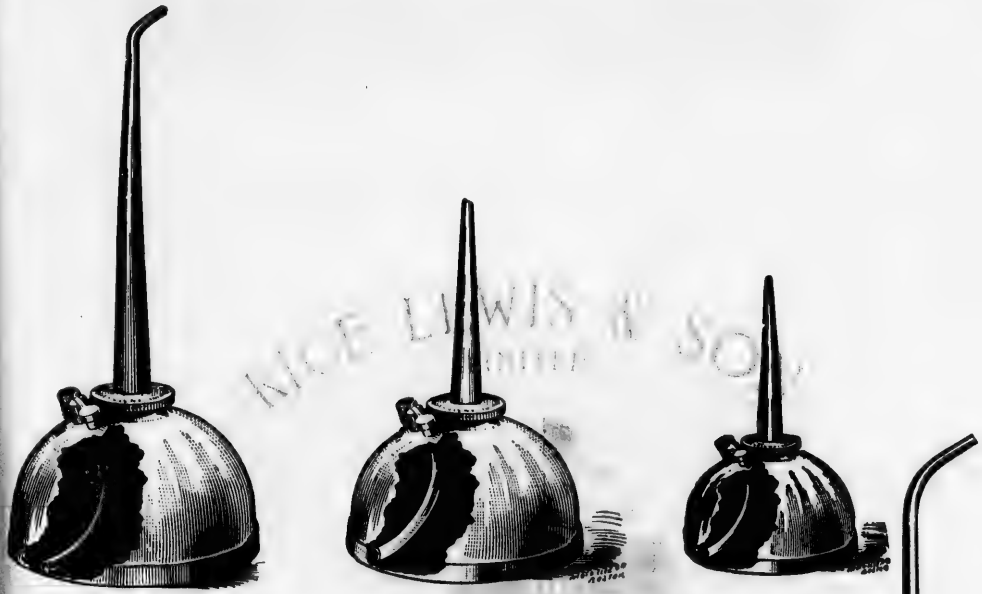
PATENT VALVE SPRING OIL FEEDER

| No. 735 | ¼ | ½ | 1 | 1½ | pint. |
|---|---|---|---|---|---|
| Per dozen | $6.75 | 8.05 | 10.35 | 12.30 | |

## ROUND BODY, LOCOMOTIVE SPRING VALVE FEEDERS

| Extreme Length | 14 | 16 | 18 | 23 | inch. |
|---|---|---|---|---|---|
| Per dozen | $6.75 | 8.05 | 10.35 | 12.30 | |

# PATENT SPRING AND RAILROAD OILERS



## PATENT SPRING OILERS

### COPPER-PLATED STEEL

| Nos | 012 | 013 | 014 | 015 | 016 |
|---|---|---|---|---|---|
| Diameter | 2⅜ | 3⅛ | 3⅜ | 4¼ | 4¼ |
| Length of Spout | 2¼ | 3 | 9 | 3 | 9 |
| Per dozen | $5.50 | 6.50 | 7.50 | 10.25 | 11.50 |

### BRASS

| Nos | 0130 | 0140 | 0160 |
|---|---|---|---|
| Diameter | 3⅛ | 3⅜ | 4¼ |
| Length of Spout | 3 | 9 | 9 |
| Per dozen | $9.00 | 10.20 | 15.00 |

Spouts 3 inches and under are straight, 9 inch bent as shown above.

## RAILROAD OILERS

### COPPER-PLATED STEEL

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | **10**—1 Pint, | 3⅛ | inch | diameter, | 5 | inch | high, | 12 | inch | Spout | per doz. $14.00 |
| " | **11**—1 Quart, | 4⅛ | " | " | 6 | " | " | 18 | " | " | " 18.00 |
| " | **101**—1 " | 4⅛ | " | " | 6 | " | " | 10 | " | " | ..... " 18.00 |
| " | **111**—2 " | 5 | " | " | 8 | " | " | 9 | " | " | ..... " 20.00 |

### BRASS

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | **17**—1 Pint, | 3⅛ | inch | diameter, | 5 | inch | high, | 12 | inch | Spout | per doz. 18.00 |
| " | **18**—1 Quart, | 4⅛ | " | " | 6 | " | " | 18 | " | " | ..... " 21.00 |

### COPPER-PLATED STEEL, WITH PATENT SPRING

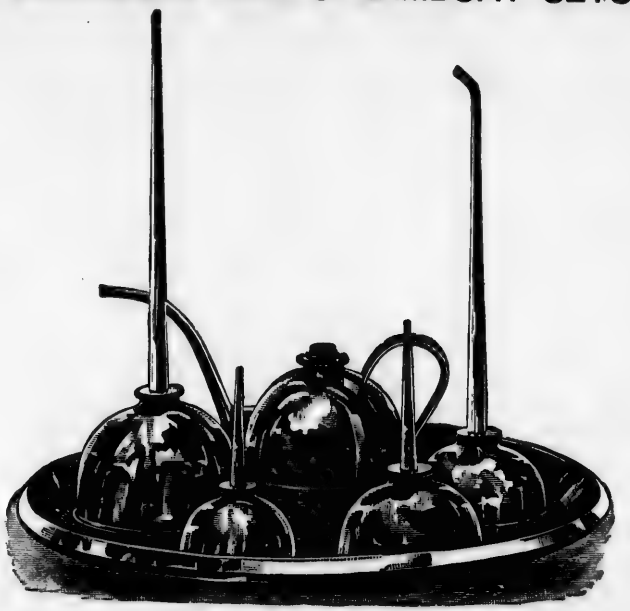
| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | **010**—1 Pint, | 3⅛ | inch | diameter, | 5 | inch | high, | 12 | inch | Spout | per doz. 15.00 |
| " | **011**—1 Quart, | 4⅛ | " | " | 6 | " | " | 18 | " | " | ..... " 19.00 |



RAILROAD OILER

These Oilers have seamless drawn bodies and are regular standard sizes and patterns, used on all railroads. The Nos. 101 and 111 have large Spout 1 inch at base, are especially adapted for Locomotive and Stationary Engines.

# ENGINEERS' AND STEAMBOAT SETS



## ENGINEERS' SETS

Including Tray.

| | | Per Set. |
|---|---|---|
| No. **30**—Copper-Plated, 5 pieces | | $5.00 |
| " **40**— " 6 " | | 7.00 |
| " **50**—Nickel-Plated 5 " | | 7.00 |
| " **60**— " 6 " | | 10.00 |
| " **130**—Brass, Polished 5 " | | 6.00 |
| " **140**— " " 6 " | | 9.00 |

### ENGINEERS' SETS WITH PATENT OILERS

Including Tray.

| | |
|---|---|
| No. **030**—Brass, Polished, 5 pieces | $7.00 |
| " **040**— " " 6 " | 10.00 |

## STEAMBOAT SETS

Including Tray.

| | Per Set. |
|---|---|
| No. **170**—Brass, Polished, 5 pieces | $7.00 |
| " **180**— " " 6 " | 10.00 |

### STEAMBOAT SETS WITH PATENT OILERS

Including Tray.

| | |
|---|---|
| No. **070**—Brass, Polished, 5 pieces | $8.00 |
| " **080**— " " 6 " | 11.00 |

The Steamboat Sets are so constructed, with a double bottom to the Tray, that when the boat is in motion the oilers will remain in their places.

One set in a box.

## ENGINEERS' FILLERS



### COPPER-PLATED STEEL

| | Per doz. |
|---|---|
| No. **19** —1 Pint, 4½ in. diam., 3½ in. high | $14.00 |
| " **19A**—1½ " 4½ " 4 " | 17.00 |
| " **210**—1 Quart, 5 " 5 " | 20.00 |
| " **211**—2 " 6 " 6 " | 24.00 |

### NICKEL-PLATED

| | |
|---|---|
| No. **190**—1½ Pint, 4½ in. diam., 4 in. high | 22.00 |
| " **200**—1 Quart, 4½ " 4 " | 30.00 |
| " **201**—2 " 4½ " 4 " | 34.00 |

### BRASS POLISHED

| | Per doz. |
|---|---|
| No. **1190**—1½ Pint, 4½ in. diam., 4 in. high | $22.00 |
| " **1200**—1 Quart, 5 " 5 " | 30.00 |
| " **1201**—2 " 6 " 6 " | 34.00 |

### PATENT SPRING FILLERS

| | |
|---|---|
| No. **019** —1 Pint, Steel, 4½ in. diam., 3½ in. high. | 15.00 |
| " **0210**—1 Quart, " 5 " 5 " | 21.00 |
| " **0190**—1½ Pint, Brass, 4½ " 4 " | 23.00 |
| " **0200**—1 Quart, " 5 " 5 " | 31.00 |

Nos. 019 to 0200 are Copper-plated and have Patent Spring, as shown in cut of Oilers on page 321.

# SHAFTING, COUPLINGS AND HANGERS



## PATENT COLD-ROLLED STEEL SHAFTING

Kept in stock in

**16 FEET LENGTHS**

Made to Whitworth Standard Gauge and accurately straightened.

| Sizes | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 9/16 | 5/8 | 11/16 | 3/4 | 13/16 | 7/8 | 15/16 | 1 | 1 1/16 | 1 1/8 inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Weight, per foot | .167 | .260 | .375 | .511 | .667 | .845 | 1.05 | 1.26 | 1.50 | 1.77 | 2.05 | 2.35 | 2.68 | 3.02 | 3.38 |
| Price.....per lb. | $.... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |

| Size | 1 3/16 | 1 1/4 | 1 5/16 | 1 7/16 | 1 1/2 | 1 5/8 | 1 3/4 | 1 7/8 | 2 | 2 1/8 | 2 1/4 | 2 1/2 | 2 3/4 | 3 inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Weight, per foot | 3.77 | 4.17 | 4.61 | 5.52 | 6.01 | 7.06 | 8.18 | 9.39 | 10.69 | 12.07 | 13.52 | 16.70 | 20.21 | 24.05 |
| Price.....per lb. | $.... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |

Boxing extra.

Shafting larger than 3 inch to 5 inch in diameter can be furnished to order only.

## PATENT COLD-ROLLED SQUARE STEEL

**FOR KEYS AND SQUARE SHAFTS**

| Inches square | 1/4 | 9/32 | 5/16 | 3/8 | 7/16 | 1/2 | 9/16 | 5/8 | 11/16 | 3/4 | 13/16 | 7/8 | 15/16 | 1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Weight, per foot | .213 | .270 | .332 | .479 | .652 | .850 | 1.08 | 1.34 | 1.61 | 1.92 | 2.25 | 2.60 | 3.00 | 3.40 |
| Price.....per lb. | $.... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |

## RIBBED COMPRESSION COUPLINGS

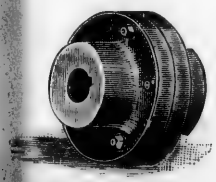


| Size of Shaft | 1 3/16 | 1 5/16 | 1 7/16 | 1 11/16 | 1 15/16 | 2 3/16 | 2 7/16 | 2 11/16 | 2 15/16 inch. |
|---|---|---|---|---|---|---|---|---|---|
| Each | $3.05 | 3.65 | 4.20 | 6.30 | 7.40 | 9.00 | 10.00 | 11.00 | 13.00 |

## FLANGE OR FACE COUPLINGS

Bored and Turned, complete with Bolts.

| Size of Shaft | 1 1/4 | 1 1/2 | 1 3/4 | 2 | 2 1/4 | 2 1/2 | 3 inch. |
|---|---|---|---|---|---|---|---|
| Each | $3.10 | 3.85 | 5.85 | 6.75 | 7.35 | 8.25 | 9.55 |



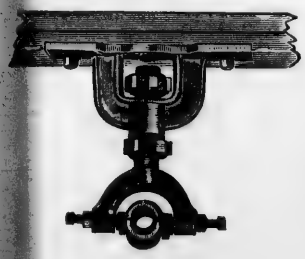
FLANGE COUPLING

## SHAFTING SET COLLARS

| Dia. of Hole | 1 | 1 1/8 | 1 1/4 | 1 3/8 | 1 1/2 | 1 3/4 | 2 inch. |
|---|---|---|---|---|---|---|---|
| Each | $0.65 | 0.75 | 0.85 | 0.95 | 1.05 | 1.25 | 1.45 |



SHAFTING COLLAR



## ADJUSTABLE SHAFTING HANGERS

**SELF-LUBRICATING, DOUBLE LOCKNUT**

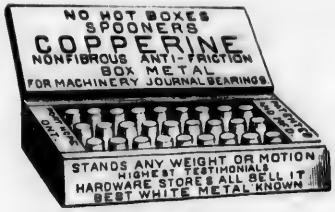
| Size of Shaft | 3/4 | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 | 2 1/4 | 2 1/2 | 3 inch. |
|---|---|---|---|---|---|---|---|---|---|
| Weight.....lbs. | .... | .... | .... | 42 | 61 | 82 | 128 | 176 | 265 |
| Each | $1.90 | 2.25 | 2.65 | 3.85 | 5.05 | 6.15 | 8.65 | 11.15 | 15.90 |

Post Hangers same price as Drop Hangers.

# METALS




**POST'S ZERO** Babbitt Metal ..... per lb. $0.35




## SPOONER'S COPPERINE

| | FINEST | No. 1 | No. 2 |
|---|---|---|---|
| er lb. | $0.35 | 0.21 | 0.15 |

No. X—Antifriction Babbitt Metal ..... per lb. $0.12
" 0— " " " ..... " 0.09

## LEAD

| | BAR LEAD | PIG LEAD |
|---|---|---|
| Per 100 lbs. | $.... | .... |

## TIN

| | BAR TIN | PIG TIN |
|---|---|---|
| Per 100 lbs. | $.... | .... |

## COPPER

| | BAR | INGOT |
|---|---|---|
| Per 100 lbs. | $.... | .... |

## CAKE ZINC

**ZINC**—In Slabs of about 40 lbs. ..... per 100 lbs. $....

## ANTIMONY

**ANTIMONY**—In cakes weighing about 30 lbs. ..... per 100 lbs. $....

## SOLDER

Half and Half Solder, in Bars ..... per 100 lbs. $....
Plumbers' " in Cakes or Bars ..... "
Wire " in Coils ..... "

## SPELTER

Best English Brass Brazing Spelter Grain, in 28 lb. Bags ..... per 100 lbs. $....
" " " " " Square Wire, in Coils ..... "

## DIXON'S PASTE BRAZING GRAPHITE

Thoroughly prevents the Spelter or Brass from sticking to the Metal ..... per lb. $0.5

# LEAD PIPE

## LIST OF CALIBRE AND WEIGHT OF LEAD PIPE

| Calibre. | Weight per yard | Calibre. | Weight per yard. | Calibre. | Weight per yard. | Calibre. | Weight per yard. |
|---|---|---|---|---|---|---|---|
| | Lbs. | | Lbs. | | Lbs. | | Lbs. |
| ¼ in | 1½ | ¾ in. extra light | 5 | 1¼ in. extra light. | 6 | 1¾in. extra strong | 20 |
| ⅜ in. light | 2½ | light | 6 | light | 8 | 2 in. extra light.. | 16 |
| strong | 3 and 4* | medium | 7 | medium | 10 | light | 18 |
| ½ in. extra light | 2½,3and3½ | strong | 8 | strong | 12 | medium | 20 |
| light | 4 | extra strong | 9 and 10* | extra strong | 14 | strong | 22 |
| medium | 4½ | 1 in. extra light. | 5 | 1½ in. extra light. | 10 | extra strong | 24 |
| strong | 5 and 6* | light | 6 | light | 11 | 2½in. light | 20 |
| extra strong | 7 and 8 | medium | 7 | medium | 12 | medium | 24 |
| ⅝ in. extra light. | 4½ | strong | 8 | strong | 14 | strong | 27 |
| light | 5 | extra strong | 9 and 10 | extra strong | 16 and 18 | extra strong | 30 and 32 |
| medium | 6 | double extra strong | 12 and 13* | 1¾ in. light | 14 | 3 in. light | 27 |
| strong | 7 | | | medium | 16 | medium | 30 |
| extra strong | 8* and 9 | | | strong | 18 | strong | 34 |

* Corporation standard.

## LEAD PIPE

Lead Pipe, all sizes, put up in coils about 165 lbs. ..... per lb. $0.07

## COMPOSITION GAS TUBING
### ON REELS

| | | | | | | |
|---|---|---|---|---|---|---|
| Calibre | ⅜ | ½ | ⅝ | ¾ | 1 | inch. |
| Weight per Yard | 1 | 1½ | 2½ | 3 | 3½ | lb. |
| Average length | 75 | 50 | 40 | 30 | 25 | yards. |
| Per lb. | $0.07½ | 0.07½ | 0.07½ | 0.07½ | 0.07½ | |

## BRASS CASED TUBING



Lacquered, Iron Lined, 10 or 12 ft. lengths.

| Sizes | 5/16 | ⅜ | ½ | ⅝ | ¾ | ⅞ | 1 | 1¼ | 1½ | 2 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Per 100 feet | $9.00 | 9.50 | 11.75 | 14.25 | 17.50 | 21.25 | 25.50 | 34.00 | 45.00 | 76.00 | |

## SOLID DRAWN BRASS TUBING

| Iron Pipe, Sizes | ¼ | ⅜ | ½ | ¾ | 1 | 1¼ | 1½ | inch. |
|---|---|---|---|---|---|---|---|---|
| Per lb. | | | | | | | | |

## BRAZED BRASS TUBING

| Sizes | ⅛ | 3/16 | ¼ | 5/16 | ⅜ | ½ | ⅝ | ¾ | inch. |
|---|---|---|---|---|---|---|---|---|---|
| Per lb. | | | | | | | | | |

## BRASS CASED RODS

| | | |
|---|---|---|
| ¼ inch diameter | per 100 ft. | $2.80 |
| ⅜ " | " | 5.60 |

## SOLID BRASS ROD

| Sizes | ¼ | 5/16 | ⅜ | 7/16 | ½ | ⅝ | ¾ | ⅞ | 1 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|
| Per lb. | $0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | |

## SHEET BRASS

### Spring, 12 Inches Wide

| Gauges | 6 | 8 | 10 | 12 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Per lb | $0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.24 | 0.24 | 0.24 | 0.24 |

### Soft, 12 Inches Wide

| Gauges | 16 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 30 | 32 | 34 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Per lb. | $0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.23 | 0.23 | 0.23 | 0.23 | 0.24 | 0.25 | 0.26 |

### Soft, 16 Inches Wide

| Gauges | 16 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 30 | 32 | 34 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Per lb | $0.25 | 0.25 | 0.25 | 0.25 | 0.26 | 0.26 | 0.26 | 0.26 | 0.27 | 0.27 | 0.28 | 0.28 | 0.29 | 0.30 | 0.31 |

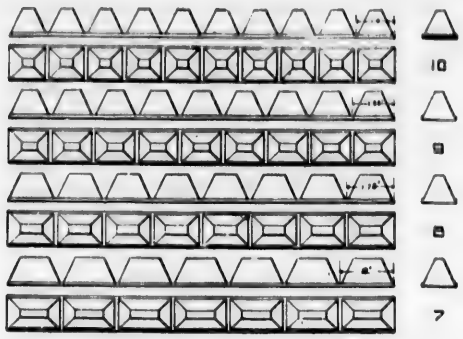
Brass in special patterns of wire and strips, price on application.

# ALUMINUM AND ALUMINUM ALLOYS

In the form of

**INGOTS, CASTINGS, BARS, PLATES, SHEETS, TUBES AND WIRE, AND ALL FORMS OF STRUCTURAL SHAPES**

**Correspondence Solicited.**




## STANDARD RE-MELTING INGOTS

We carry in stock

| | INGOT ALUMINUM | | SPECIAL CASTING ALLOY | NICKEL ALUMINUM CASTING ALLOY |
|---|---|---|---|---|
| | No. 1 | No. 2 | 80% pure, alloyed with zinc, copper, tin, manganese and iron. Specific gravity, 3.0. | 7 to 10% nickel and copper. Specific gravity about 2.85. |
| | 98% pure. | 94% pure. | | |
| Price, less than 50 lbs. | $..... | ..... | ..... | ..... |
| " 50 to 100 lbs. | ..... | ..... | ..... | ..... |
| " over 100 lbs. | ..... | ..... | ..... | ..... |

## SHEET ALUMINUM

12 inches wide, 6 to 8 feet long, kept in stock; other sizes to order.

| Gauge Nos. | 10 to 19 | 20 to 24 | 25 to 30 |
|---|---|---|---|
| Price .....per lb. | ..... | ..... | ..... |

The comparative weight of Aluminum to Brass is as 1 is to 3.19, so that an equivalent price per square foot of Aluminum as compared to Brass for a given amount of money would enable a consumer to purchase the same number of square feet in Aluminum as could be obtained in Brass; but when large quantities of Aluminum are ordered, a reduction in price is made, making the cost of Aluminum considerably cheaper than Brass.

## ALUMINUM

This metal has been rolled into sheets of .0007 inch thick. It can also be drawn into tubes or wire, and spun or stamped into different shapes. For stamping or spinning, it must be annealed after rolling. The rigidity and temper of Aluminum is considerably increased by the addition of a few per cent. of hardening ingredients. The metals commonly used for this purpose are nickel, copper, manganese, tin, iron and zinc. In plates or sheets these metals are added in amounts not to exceed 5 or 6 per cent. Greater percentages render these Aluminum alloys non-malleable.

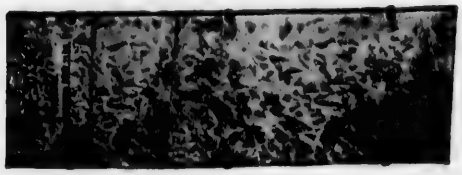
**NICKEL ALUMINUM** in sheets and sections, having a composition of from two to five per cent. of nickel and copper, alloyed with pure Aluminum, and with a specific gravity of about 2.75, are furnished, either hot rolled and annealed, for stamping and spinning, or medium hard rolled, or cold rolled and very stiff, as may be required. **Nickel Aluminum and Special Casting Alloys** have a tensile strength about equal to that of brass, has about the same shrinkage as brass, and can be as easily tooled.

**ALUMINUM, IN INGOTS FOR CASTING,** melts at a temperature of about 650 degrees centigrade, or 1,200 Fahrenheit. It is not good practice in making castings to heat it much above its melting point or allow it to remain melted for any great length of time, on account of its capacity for absorbing gases. Aluminum is melted in ordinary plumbago crucibles. No flux is needed to cover the metal, for it is non-volatile at any temperature that can be attained with an ordinary coke fire without blast. A very thin film of oxide forms on the surface of the molten metal, which, while not enough to injure either ingots or castings, protects the metal from further oxidations. The metal should be poured as cold as possible, in order to insure sound castings, free from blow holes (caused by the very great absorption of gas by over-heated molten Aluminum) or cracks and depressions due to shrinkage. The gates should be large, and put in such places on the castings that the metal will not "draw away" where the gate joins the piece.

Aluminum in proportions of two per cent. and over materially decreases the shrinkage of cast-iron. From one to two pounds of Aluminum per ton in cast-iron put into the metal as it is being poured from the cupola lessens the tendency of the metal to chill, and permits of sounder castings being made, having a closer grain and hence much easier tooled.

**ALUMINUM FOR STRUCTURAL PURPOSES.** The attention of those contemplating the use of Aluminum for structural purposes is called to the fact that the elastic limit is closer to the ultimate tensile strength than in any other of the commercial metals, and for this reason the safety factor of four to five means a great deal more than it does in steel or iron where the same safety factor is used. Generally speaking, for purposes where Aluminum alloys are brought into tension, such as in sheets or in rolled shapes, an ultimate tensile strength of from 32,000 to 40,000 pounds per square inch may be reckoned upon (pure metal may be taken at from 24,000 to 28,000 pounds). For the alloys of cast Aluminum on tension the ultimate tensile strength may be taken at from 18,000 to 28,000 pounds per square inch.

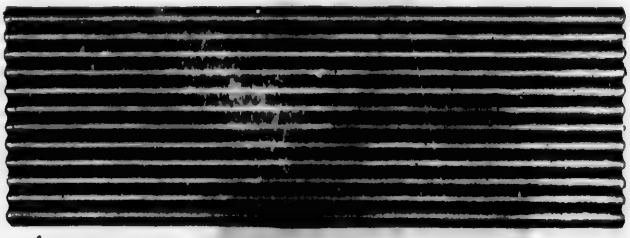
# GALVANIZED SHEET-IRON



### STOCK SIZES

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 ft. x 2½ ft. | 28 W.G. | 26 W.G. | 24 W.G. | 22 W.G. | 20 W.G. | 18 W.G. | 17 W.G. |
| 6 " x 3 " | " | " | " | " | " | " | " |
| 8 " x 2½ " | " | " | " | " | " | " | " |
| 8 " x 3 " | " | " | " | " | " | " | " |

## GALVANIZED CORRUGATED SHEET-IRON



Corrugations 2⅔ inches from centre to centre. Sheets usually stocked measure 28 inches wide, will cover 26 inches from centre to centre of outside corrugation; length 8 feet. It is suitable for Roofing, Siding, Partitions, Curved Ceilings and Awnings.

Price (square equals 10 x 10 feet) ..... per square $....

## PLANISHED SHEET-IRON

(IMITATION RUSSIAN)

A quality, Rustless, size 60 x 28 inch ..... per 100 lbs. $....
B " " " " " ..... " ....

## SHEET ZINC

No. 8 (No. 27 B.W.G.) ..... per 100 lbs. $....
" 9 " 26 " ..... " ....

Size of Sheets, 84 x 36 inch; about 500 lbs. in cask.

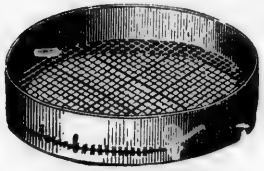
## PERFORATED SHEET ZINC

Size of Sheets, 3 x 8 feet.

| Diameter of Hole | 1/8 | 1/4 | 3/8 | 1/2 to 1 inch. |
|---|---|---|---|---|
| Price per square foot | $0.22 | 0.16 | 0.12 | 0.10 |

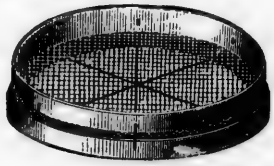
# SIEVES AND RIDDLES

## MOULDERS' RIDDLES



SINGLE RIM RIDDLES

In ⅜, ½, ⅝, ¾, ⅞ and 1 inch mesh.



DOUBLE RIM RIDDLES

In Nos. 3, 4, 5, 6, 7, 8, 10, 12, 14 and 16 mesh.

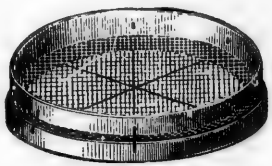
| | | |
|---|---|---|
| No. 1—Steel or Iron Wire, 18 inch in diameter | per doz. | $ 9.60 |
| " 2—Galvanized Wire " " | " | 12.00 |
| " 3—Brass Wire " " | " | 15.60 |

## MINERS' EXTRA HEAVY STEEL WIRE RIDDLES

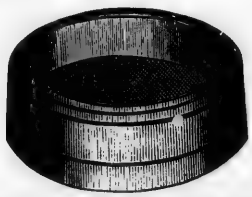
| Space | ⅜ | ⅝ | ¾ | ⅞ | 1 | 1⅛ | 1¼ | 1⅜ | 1½ inch. |
|---|---|---|---|---|---|---|---|---|---|
| No. of Wire | 14 | 13 | 12 | 11 | 11 | 10 | 10 | 9 | 9 |
| Per dozen | $16.20 | 16.20 | 14.85 | 13.50 | 13.50 | 13.50 | 13.50 | 13.50 | 13.50 |

These Riddles are 20 inches in diameter, with the steel wire bottom independent of the rim.

## SEED AND FLOUR SIEVES

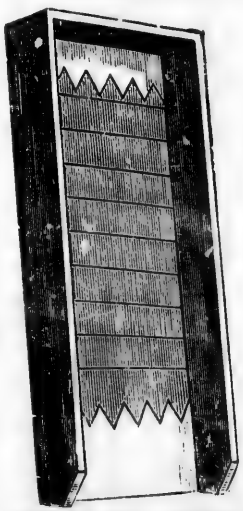


SEED SIEVES



TIMOTHY AND FLOUR SIEVES

| | | |
|---|---|---|
| No. 4—Seed Sieves, 18 inch in diameter, 2 to 22 mesh | per doz. | $7.20 |
| " 5—Timothy and Flour Sieves, 3 in a nest, 11, 12 and 13 inch diameter, Tinned, 14 to 22 mesh | " | 2.10 |
| " 7—Potato Riddles, ⅜ to 2 inch space, 18 inch diameter | " | 9.60 |



MASON'S SAND SCREEN

## SAND AND COAL SCREENS

### EXTRA HEAVY SAND SCREENS

| | | |
|---|---|---|
| No. 3—Crimped, size 7 ft. x 34 inch | each | $7.20 |
| " 4— " " 5 ft. x 26 inch | " | 6.00 |

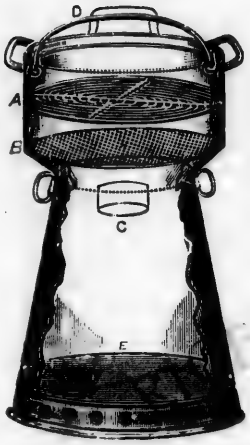
The usual size is ¼ mesh in the clear.

### EXTRA HEAVY STEEL WIRE COAL SCREENS

⅜ to 1 inch square openings.

| | | |
|---|---|---|
| No. 5—Crimped, size 7 ft. x 34 inch | each | $10.80 |
| " 6 " " 5 ft. x 27 inch | " | 8.75 |

# COAL ASH SIFTERS

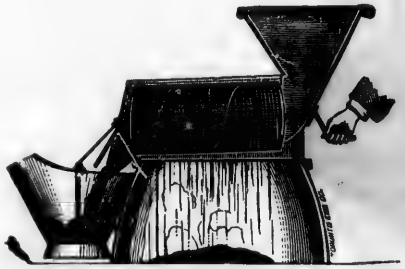






## KRASEL DOUBLE COAL ASH SIFTER

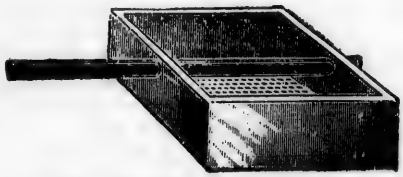
Japanned, 30 inches high, 15 inches wide..... each $3.00






## WILSON COAL ASH SIFTER

| | |
|---|---|
| Japanned, can be used in connection with any ordinary barrel | each $3.75 |
| Galvanized, " " " " " " | " 4.50 |
| Octagon Shaped, Japanned Barrels only, as shown in right-hand cut | " 2.25 |
| " " Galvanized " " " " | " 3.00 |



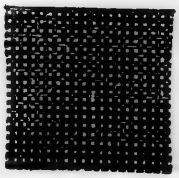
## SQUARE COAL ASH SIFTERS

### WITH HANDLES

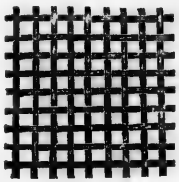
Per dozen..... $1.75

# WIRE CLOTH

Meshes are from centre to centre of wires. Put up in 12 yard rolls.

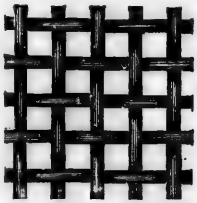


No. 18 MESH, No. 25 WIRE

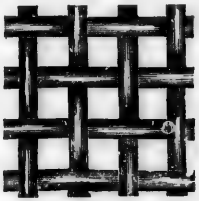


No. 8 MESH, No. 18 WIRE

| Size. | No. of Wire. | Cents Per Yard. | | | |
|---|---|---|---|---|---|
| | | 18 In. | 21 In. | 24 In. | 30 In. |
| No. 2 x 2 Mesh | 18 | $0.28 | $0.30 | $0.35 | $0.45 |
| " 2½ x 2½ " | 19 | 0.28 | 0.30 | 0.35 | 0.45 |
| " 3 x 3 " | 20 | 0.28 | 0.30 | 0.35 | 0.45 |
| " 4 x 4 " | 22 | 0.28 | 0.30 | 0.35 | 0.45 |
| " 5 x 5 " | 23 | 0.28 | 0.30 | 0.35 | 0.45 |
| " 6 x 6 " | 24 | 0.28 | 0.30 | 0.35 | 0.45 |
| " 7 x 7 " | 25 | 0.30 | 0.32 | 0.37 | 0.47 |
| " 8 x 8 " | 26 | 0.30 | 0.32 | 0.37 | 0.47 |
| " 9 x 9 " | 27 | 0.30 | 0.32 | 0.37 | 0.47 |
| " 10 x 10 " | 28 | 0.33 | 0.35 | 0.40 | 0.50 |
| " 12 x 12 " | 30 | 0.33 | 0.35 | 0.40 | 0.50 |
| " 14 x 14 " | 32 | 0.35 | 0.37½ | 0.43 | 0.55 |
| " 16 x 16 " | 34 | 0.35 | 0.37½ | 0.43 | 0.55 |
| " 18 x 18 " | 35 | 0.37 | 0.40 | 0.45 | 0.55 |
| " 20 x 20 " | 36 | 0.37 | 0.40 | 0.45 | 0.55 |
| " 22 x 22 " | 36 | 0.37 | 0.40 | 0.45 | 0.55 |
| " 24 x 24 " | 36 | ..... | ..... | 0.54 | 0.65 |
| " 26 x 26 " | 37 | ..... | ..... | 0.60 | 0.75 |



No. 4 MESH, No. 13 WIRE



No. 3 MESH, No. 11 WIRE

## BRASS AND COPPER WIRE CLOTH

### 100 FEET ROLLS

| Mesh | 12 x 12 | 14 x 14 | 16 x 16 | 18 x 18 | 20 x 20 | 24 x 24 | 30 x 30 | 40 x 40 | 50 x 50 | 60 x 60 |
|---|---|---|---|---|---|---|---|---|---|---|
| Gauge of Wire...Nos. | 24 | 25 | 26 | 27 | 28 | 30 | 31 | 33 | 35 | 36 |
| Per square foot | $0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.35 | 0.40 | 0.45 | 0.50 | 0.60 |

Meshes are from centre to centre of wires.

**Brass Milk Strainer Cloth**, 50 x 50 Mesh, in 5 feet rolls, 12 inches wide.....per square foot $0.27

## WINDOW SCREENS

### HARDWOOD, OIL FINISHED



**PERFECTION**

| Size. | Per Doz. |
|---|---|
| No. 2—18 inch high, adjusts 20 to 23 inches | $4.15 |
| " 3—18 " " " 24 to 40 " | 4.65 |
| " 4—24 " " " 24 to 40 " | 5.65 |



**NEW EXTENSION**

| Size. | Per Doz. |
|---|---|
| No. A—18 inch high, adjusts 16 to 24 inches | $4.75 |
| " B—18 " " " 24 to 32 " | 5.25 |
| " C—22 " " " 32 to 40 " | 6.25 |

One dozen in a crate.



No. 13 WIRE



No. 11 WIRE

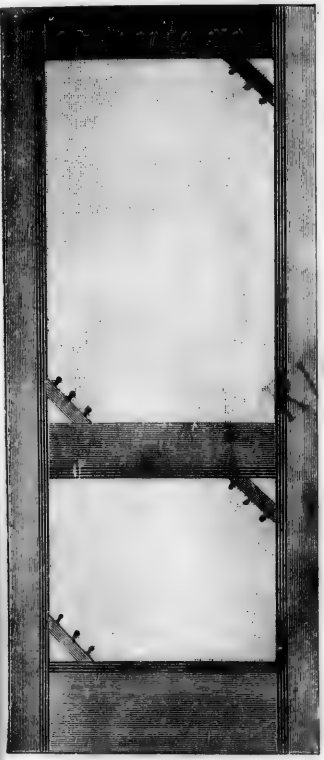
| 50 x 50 | 60 x 60 |
|---|---|
| 35 | 36 |
| 0.50 | 0.60 |

uare foot $0.27

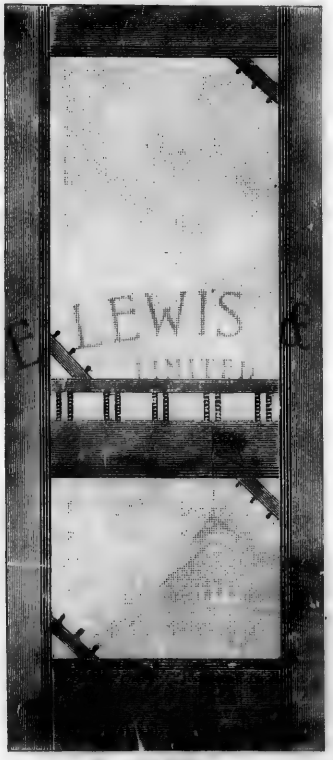
| | Per Doz. |
|---|---|
| hes..... | $4.75 |
| " ..... | 5.25 |
| " ..... | 6.25 |

# SCREEN DOORS

## WITH FLUSH MOULDING



No. **100**




No. **102**



No. **104**

Wire Cloth, put on with a groove and wedge. Doors are made up from clear, white pine, $\frac{7}{8}$ inch thick; Nos. 100 and 102 are filled and varnished; No. 104, finished in Walnut Stain. Both sides alike.

| Size | | 2 ft. 8 in. x 6 ft. 8 in. | 2 ft. 10 in. x 6 ft. 10 in. | 3 ft. x 7 ft. |
|---|---|---|---|---|
| No. **100** | per doz. | $22.00 | 22.00 | 22.00 |
| " **102** | " | 25.75 | 25.75 | 25.75 |
| " **104** | " | 14.00 | 14.00 | 14.00 |

## SCREEN WIRE CLOTH

### PAINTED GREEN

**Double Selvage, Standard Mesh, in 50 Lineal Feet Rolls.**

Green Painted Screen Wire Cloth, 12 x 12 Mesh, No. 33 Steel Wire.....per 100 square feet $2.70

Widths carried in stock: 18, 20, 22, 24, 26, 28, 30, 32, 34 and 36 inches.

**Table showing Number of Square Feet from One to Five, 50 Feet Rolls**

| Lineal Feet. | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 Inch wide. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50.... | 75 | 83⅓ | 91⅔ | 100 | 108⅓ | 116⅔ | 125 | 133⅓ | 141⅔ | 150 | 158⅓ | 166⅔ | 175 Sq. ft. |
| 100.... | 150 | 166⅔ | 183⅓ | 200 | 216⅔ | 233⅓ | 250 | 266⅔ | 283⅓ | 300 | 316⅔ | 333⅓ | 350 " |
| 150.... | 225 | 250 | 275 | 300 | 325 | 350 | 375 | 400 | 425 | 450 | 475 | 500 | 525 " |
| 200.... | 300 | 333⅓ | 366⅔ | 400 | 433⅓ | 466⅔ | 500 | 533⅓ | 566⅔ | 600 | 633⅓ | 666⅔ | 700 " |
| 250.... | 375 | 416⅔ | 458⅓ | 500 | 541⅔ | 583⅓ | 625 | 666⅔ | 708⅓ | 750 | 791⅔ | 833⅓ | 875 " |

# IRON AND STEEL WIRE




PRICE LIST ADOPTED DEC. 21ST, 1897.

| Nos. | 6/9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bright / Annealed | 2.60 | 2.70 | 2.80 | 3.00 | 3.20 | 3.40 | 3.60 | 3.80 | 3.90 | 4.10 | 4.30 | 4.60 |
| Coppered | 3.20 | 3.30 | 3.40 | 3.50 | 3.75 | 4.00 | 4.25 | .... | .... | .... | .... | .... |
| Galvanized | 3.20 | 3.30 | 3.40 | 3.50 | 3.75 | 4.00 | 4.25 | 5.30 | 5.50 | 5.70 | 6.00 | .... |
| Tinned | 5.75 | 6.00 | 6.00 | 6.50 | 6.50 | 6.50 | 6.60 | 6.75 | 6.90 | 7.00 | 7.20 | 7.40 |

| Nos. | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bright, Weaving and Binding (Black) | 5.10 | 5.25 | 5.60 | 6.30 | 7.00 | 8.00 | 8.50 | 9.00 | 9.50 | 10.00 | 10.50 | 11.00 | 12.00 | 13.00 |
| Tinned | 7.60 | 7.80 | 8.00 | 8.50 | 9.00 | .... | .... | .... | .... | .... | .... | .... | .... | .... |

## EXTRAS—NET

| | | | | | |
|---|---|---|---|---|---|
| Oiled Wire | per 100 lbs. | $0.05 | Bagging and Papering | per 100 lbs. | $0.10 |
| Spring Wire | " | 0.75 | 50 and 100 lb. Bundles | " | 0.05 |
| Special Hay Baling Wire | " | 0.25 | in 25 lb. Bundles | " | 0.10 |
| Best Steel Wire | " | 0.65 | " 1 lb. Hanks | " | 0.50 |
| Bright Soft Drawn | " | 0.15 | " ½ lb. " | " | 0.75 |
| Charcoal (Extra Quality) | " | 1.00 | " ¼ lb. " | " | 1.00 |
| Packed in Casks or Cases | " | 0.15 | " 1 oz. Rings | " | 4.00 |

### LIGHT STRAIGHTENED WIRE

Cut to Special Exact Length.

| Size of Wire | Gauge No. | 0 to 5 | 6 to 9 | 10 to 11 | 12 to 16 |
|---|---|---|---|---|---|
| Over 20 inch long | per 100 lbs. | $0.25 | 0.50 | 0.75 | 1.00 |
| 10 to 20 " " | " | 0.50 | 0.75 | 1.00 | 1.50 |
| 5 to 10 " " | " | 1.00 | 1.50 | 2.00 | 3.00 |

### HEAVY STRAIGHTENED WIRE

In Bundles, cut 10 to 12 ft. long (not exact).

| Size | 7/16 | 3/8 | 5/16 | 1/4 | 3/16 inch. |
|---|---|---|---|---|---|

Prices will be quoted on application.

### GALVANIZED TELEGRAPH AND TELEPHONE

Wire Gauge, Nos. 6 to 16.

| | |
|---|---|
| "B.B." | $0.15 per 100 lbs. over Plain Galvanized Wire. |
| Ex. "B.B." Charcoal | 1.15 " " " " " " |

## RYLAND'S COPPERED STEEL SPRING WIRE

| Nos. | 1 to 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Per 100 lbs. | $5.85 | 6.10 | 6.25 | 6.55 | 6.85 | 7.15 | 7.45 | 8.50 | 8.80 | 9.10 | 9.40 |

This superior quality of Coppered Steel Spring Wire has been stocked for a number of years, and given universal satisfaction.

# WIRE

## BEST SOFT COPPER WIRE

| Nos. | 3 to 10 | 11 to 16 | 17 and 18 | 19 and 20 | 21 | 22 | 23 | 24 | 25 | 26 |
|---|---|---|---|---|---|---|---|---|---|---|
| Per lb. | $0.22 | 0.23 | 0.25½ | 0.26½ | 0.27½ | 0.28 | 0.29 | 0.30 | 0.32 | 0.35 |

## SOFT BRASS WIRE

| Nos. | 1 to10 | 11 to 16 | 17 and 18 | 19 and 20 | 21 | 22 | 23 | 24 | 25 |
|---|---|---|---|---|---|---|---|---|---|
| Per lb. | $0.18½ | 0.19 | 0.19½ | 0.20 | 0.21 | 0.22 | 0.23 | 0.24 | 0.26 |

**BRASS SPRING WIRE** ..... per lb. extra, net $0.02

## HAIR WIRE ON SPOOLS



FULL SIZE OF SPOOL

| BLACK | | | | TINNED | | | |
|---|---|---|---|---|---|---|---|
| Gauge of Wire ..... Nos. | 32 | 36 | | Gauge of Wire ..... Nos. | 32 | 36 |
| Black ..... per gross | $4.00 | 5.25 | | Tinned ..... per gross | $4.75 | 6.00 |

## STUBS CAST STEEL

In 3 ft. lengths.

| Diameter | 5/16 | 7/32 | ¼ | 9/32 | 5/16 | 11/32 | ⅜ | 13/32 | 7/16 | 15/32 | ½ | ⅝ inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Per lb. | $0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 |

In 12 inch lengths.

| Diameter | | | | | | ⅛ | 5/32 | 3/16 | ¼ | 5/16 | ⅜ | 7/16 | ½ inch |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Per lb. | | | | | | $0.82 | 0.82 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 |

| Twist Drill and Wire Gauge Nos. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Per lb. | $0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 |
| Twist Drill and Wire Gauge Nos. | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| Per lb. | $0.75 | 0.75 | 0.82 | 0.82 | 0.82 | 0.82 | 0.82 | 0.82 | 0.82 | 0.82 | 0.82 | 0.82 | 0.82 |
| Twist Drill and Wire Gauge Nos. | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 |
| Per lb. | $0.82 | 0.82 | 0.82 | 0.82 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 1.05 |
| Twist Drill and Wire Gauge Nos. | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 |
| Per lb. | $1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.20 | 1.20 | 1.20 | 1.20 | 1.45 | 1.45 |

For Decimal sizes of Twist Drill Wire Gauge, see page 113.

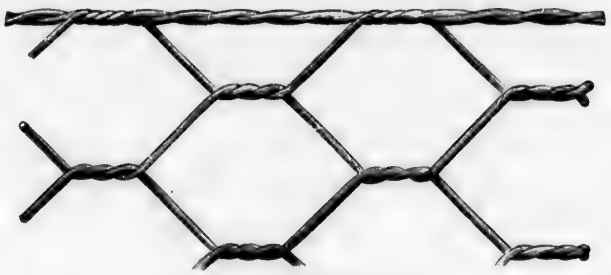
## MUSIC WIRE

In one pound rolls.

| Music Wire Gauge Nos. | 6 | 8 | 10 | 12 | 13 | 14 | 15 | 16 | 17 |
|---|---|---|---|---|---|---|---|---|---|
| Size in Decimals | .0215 | .0243 | .027 | .0296 | .0314 | .0326 | .0345 | .036 | .0377 |
| Per lb. | $.... | .... | .... | .... | .... | .... | .... | .... | .... |
| Music Wire Gauge Nos. | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 26 | 28 |
| Size in Decimals | .0395 | .0414 | .0434 | .046 | .0483 | .051 | .055 | .0626 | .072 |
| Per lb. | $.... | .... | .... | .... | .... | .... | .... | .... | .... |

# GALVANIZED POULTRY NETTING

**PUT UP IN 50 LINEAL YARD ROLLS**



1 INCH MESH

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Width | **12** | **12** | **12** | **12** | **18** | **24** | **24** | **30** | **30** | **30** | **36** | **36** | **36** | **36** | **36** | **42** | **42** | **48** | **60** | **72** | inch. |
| Mesh | 1 | 1½ | 1½ | 2 | 2 | 1 | 2 | ⅔ | 1 | 2 | ½ | 1 | 1½ | 1½ | 2 | 2 | 3 | 2 | 2 | 2 | " |
| Gauge of Wire | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 20 | 19 | 19 | 19 | 19 | 19 | 18 | 19 | 19 | 19 | |
| Per roll | $3.10 | 2.45 | 2.05 | 1.50 | 2.25 | 6.30 | 3.00 | 11.00 | 7.85 | 3.75 | 21.00 | 9.45 | 7.50 | 6.10 | 4.50 | 5.25 | 5.10 | 6.00 | 7.50 | 9.00 | |

## McMULLEN'S WOVEN WIRE FENCING

**GALVANIZED**




### LIST No. 1

Mesh 5½ x 10½ inches. Selvage No. 13, Meshes No. 14 Wire.

| | | | | | | |
|---|---|---|---|---|---|---|
| Width | **25½** | **31** | **36½** | **42** | **47½** | **53** inch. |
| Per rod | $0.54 | 0.57 | 0.60 | 0.63 | 0.66 | 0.69 |

### LIST No. 2

Mesh 5½ x 10½ inches. Selvage and Meshes No. 13 Wire.

| | | | | | | |
|---|---|---|---|---|---|---|
| Width | **25½** | **31** | **36½** | **42** | **47½** | **53** inch. |
| Per rod | $0.00 | 0.65 | 0.70 | 0.75 | 0.80 | 0.85 |

### LIST No. 3

Mesh 4 x 8 inches. Selvage No. 13, Meshes No. 14 Wire.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Width | **22** | **26** | **30** | **34** | **38** | **42** | **46** | **50** | **54** inch. |
| Per rod | $0.66 | 0.69 | 0.72 | 0.75 | 0.78 | 0.81 | 0.84 | 0.87 | 0.90 |

### LIST No. 4

Mesh 3 x 6 inches. Selvage No. 14, Mesh No. 15 Wire.

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Width | **20** | **23** | **26** | **29** | **32** | **35** | **41** | **47** | **59** | **71** | **77** inch. |
| Per rod | $0.80 | 0.85 | 0.90 | 0.95 | 0.97 | 1.00 | 1.05 | 1.10 | 1.25 | 1.40 | 1.50 |

20 Rods in a Roll, except 59, 71 and 77 inches wide, 3 x 6 inch Mesh; these are 10 Rod Rolls.

When ordering, give No. of List, width of goods and quantity required.

# FENCING WIRE



4 Barbs, 4 inches apart .....per 100 lbs. $....
4 " 6 " " ..... " ....



2 Barbs, 3 inches apart.....per 100 lbs. ....
2 " 5 " " ..... " ....



Safety Barb..... .....per 100 lbs. ....



Plain Twist, 2 Wires . .....per 100 lbs. ....



Plain Twist, 3 Wires .....per 100 lbs. $....



Ribbon Fencing .....per 100 lbs. ....

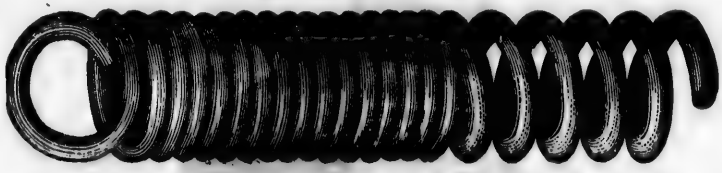


Ross Braid.....per 100 lbs. ....



Truss Cable.....per 100 lbs. ....

## COILED SPRINGS



THIS END SHOWS CLOSE COIL THIS END, OPEN COIL

When ordering Coil Springs send sample if possible. If this cannot be done, carefully describe whether coiled close or open, together with outside diameter and gauge of wire, also state how the ends are to be finished, whether ground flat, eyes turned, or left as turned from the machine.

## BEST COPPERED STEEL SPRINGS

| Diameter | ½ | ½ | 1 | 1 | 1½ | 1½ | 2 | 2 inch. |
|---|---|---|---|---|---|---|---|---|
| No. Wire Gauge | 12 and 14 | 9 and 10 | 10 and 11 | 8 and 9 | 9 and 10 | 7 and 8 | 8 and 9 | 6 and 7 |
| Close Coil.....per lb. | $0.25 | 0.22 | 0.20 | 0.18 | 0.16 | 0.14 | 0.12 | 0.10 |
| Open " ..... " | 0.30 | 0.27 | 0.24 | 0.21 | 0.18 | 0.16 | 0.13 | 0.11 |



SOFA CHAIR AND CAR SEAT SPRINGS

## COPPERED STEEL, CHAIR AND MATTRESS SPRINGS

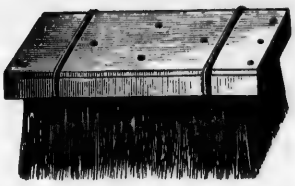
| Length..... | 4 | 4 | 4 | 5 inch. |
|---|---|---|---|---|
| No. Wire Gauge. ... | 8 | 10 | 12 | 8 |
| Tied.....per lb. | $0.08½ | 0.09 | 0.10½ | 0.07½ |
| Not tied ..... " | 0.07 | 0.07½ | 0.09 | 0.06 |

| Length..... | 5 | 6 | 6 | 7 | 8 inch. |
|---|---|---|---|---|---|
| No. Wire Gauge. | 10 | 9 | 10 | 9 | 9 |
| Tied.....per lb. | $0.08 | 0.06¾ | 0.07 | 0.06¾ | 0.06½ |
| Not tied.. " | 0.06½ | 0.05¾ | 0.05¾ | 0.05½ | 0.05½ |



MATTRESS SPRINGS

# STEEL WIRE FOUNDRY BRUSHES



No. 1



No. 2



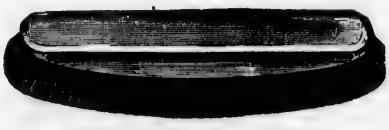
No. 3

No. 1—With Back Strap, 4 rows 3½ inch Wire ..... per doz. $5.00
" 2—With Handles " " " ..... " 5.00
" 3—Round, 3½ inch diameter, 4 inch Wire ..... " 5.50

## MOULDERS' BRUSHES



SOFT BRUSH



HARD BRUSH

No. 6—Soft Brushes or Dusters ..... per doz. $10.65
" 7—Hard " ..... " 7.35

## STEEL WIRE BROOMS



No. 5

No. 1—10 x 3½ inch, 5 rows 5 inch Wire ..... per doz. $12.00
" 2—12 x 4 " 5 " 6 " ..... " 15.00
" 3—14 x 4½ " 5 " 7 " ..... " 18.00
" 4—12 x 2½ " 4 " 5 " ..... " 10.50
" 5—14 x 2½ " 4 " 5 " ..... " 12.00



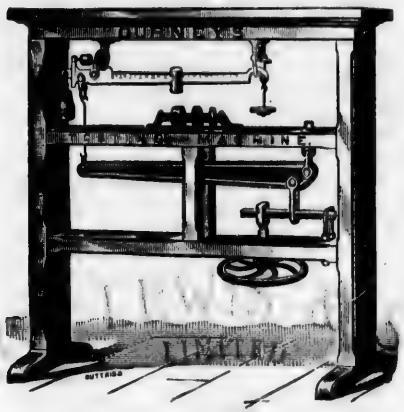
No. 3



..per doz. $10.65
.. " 7.35

. per doz. $12.00
.. " 15.00
.. " 18.00
.. " 10.50
.. " 12.00

# IRON TESTING MACHINE



This machine is for the use of foundrymen in testing the strength of Cast Iron and ascertaining the best mixture of iron for any work. Specimens one inch square, fifteen inches long, may be cast and tested in a few minutes. By turning the hand-wheel below force is applied to the specimen, the force required being registered by the beam above as on a platform scale. The frame work is of oak. Capacity, 5,000 lbs.

Price.....each $115.00

## FIRE BRICK



"Ramsay" Fire Bricks.....per 1,000 $.....
American " ..... " .....

## FIRE CLAY

Best Imported Fire Clay, in bags about 200 lbs.....per ton $15.00

# MOULDERS' TOOLS



No. 10, BENCH LIFTER



No. 1, SQUARE TROWEL



No. 2, FINISHING TROWEL



No. 13, BEAD



No. 12, LIFTERS



No. 3, HEART-SHAPE TROWEL



No. 4, HEART AND SQUARE



No. 7, TAPER AND SQUARE



No. 14, FLANGE AND BEAD

For Prices
See opposite page.



No. 13, BEAD



NGE AND BEAD

# MOULDERS' TOOLS

## MONK'S

### No. 1, SQUARE TROWELS

| Length | 4 | 4½ | 5 | 5½ | 6 inch. |
|---|---|---|---|---|---|
| 1 inch wide, per doz. | $6.75 | 7.50 | 8.25 | 9.00 | 9.75 |
| 1¼ " " | 6.75 | 7.50 | 8.25 | 9.00 | 9.75 |
| 1½ " " | 8.25 | 9.00 | 9.75 | 10.50 | 11.25 |
| 1¾ " " | .... | .... | 11.25 | 12.00 | 12.75 |
| 2 " " | .... | .... | 12.75 | 13.50 | 14.25 |

### No. 2, FINISHING TROWELS

| Length | 5 | 5½ | 6 inch. |
|---|---|---|---|
| 1¼ inch wide ..... per doz. | $8.25 | 9.00 | 9.75 |
| 1½ " ..... " | 9.75 | 10.50 | 11.25 |

### No. 3, HEART TROWELS

| Width | 2 | 2¼ | 2½ | 3 inch. |
|---|---|---|---|---|
| Per doz. | $7.50 | 9.40 | 11.25 | 15.00 |

### No. 4, HEART AND SQUARE

| Width | ¾ | 1 | 1¼ | 1½ | 1¾ | 2 inch. |
|---|---|---|---|---|---|---|
| Per doz. | $6.00 | 6.75 | 8.25 | 9.75 | 11.25 | 12.75 |

### No. 5, HEART AND LEAF

| Width | 1 | 1¼ | 1½ inch. |
|---|---|---|---|
| Per doz. | $6 75 | 8.25 | 9.75 |

### No. 6, HEART AND SPOON

| Width | 1 | 1¼ | 1½ inch. |
|---|---|---|---|
| Per doz. | $6.75 | 8.25 | 9.75 |

### No. 7, TAPER AND SQUARE

| Width | ¾ | 1 | 1¼ | 1½ inch. |
|---|---|---|---|---|
| Per doz. | $6.00 | 6.75 | 8.25 | 9.75 |

### No. 8, TAPER AND SPOON

| Width | 1 | 1¼ | 1½ inch. |
|---|---|---|---|
| Per doz. | $6.75 | 8.25 | 9.75 |

### No. 9, DOUBLE SQUARE

| Width | ½ | ⅝ | ¾ | 1 inch. |
|---|---|---|---|---|
| Per doz. | $6.75 | 7.50 | 8.25 | 9.75 |

### No. 10, BENCH LIFTERS

| Width | ⅜ | ½ | ⅝ | ¾ inch. |
|---|---|---|---|---|
| Per doz. | $6.00 | 6.75 | 7.50 | 8.25 |

### No. 11, BENCH LIFTERS (BENT)

| Width | ⅜ | ½ | ⅝ | ¾ inch. |
|---|---|---|---|---|
| Per doz. | $6.00 | 6.75 | 7.50 | 8.25 |

### No. 12, LIFTERS

| Length | 10 | 12 | 14 | 16 | 18 inch. |
|---|---|---|---|---|---|
| ¼ inch, per doz. | $5.25 | 6.00 | 6.75 | 7.50 | .... |
| ⅜ " " | 5.25 | 6.00 | 6.75 | 7.50 | .... |
| ½ " " | 6.00 | 6.75 | 7.50 | 8.25 | .... |
| ¾ " " | 6.75 | 7.50 | 8.25 | 9.00 | 9.75 |
| ⅞ " " | .... | 8.25 | 9.00 | 9.75 | 10.50 |
| ⅞ " " | .... | .... | 9.00 | 9.75 | 10.50 |
| 1 " " | .... | .... | .... | 11.25 | 12.00 | 12.75 |

### No. 13, BEAD

| Width | ½ | ⅝ | ¾ inch. |
|---|---|---|---|
| Per doz. | $6.75 | 7.50 | 8.25 |

### No. 14, FLANGE AND BEAD

| Width | ½ | ⅝ | ¾ | 1 inch. |
|---|---|---|---|---|
| Per doz. | $10.50 | 12.00 | 13.50 | 16.50 |

### No. 15, HUB TOOL

| Width | ¾ | 1 inch. |
|---|---|---|
| Per doz. | $11.25 | 13.50 |

### No. 16, HALF ROUND CORNER

| Width | 1 | 1¼ | 1½ | 2 inch. |
|---|---|---|---|---|
| Per doz. | $7.50 | 7.50 | 7.50 | 7.50 |

### No. 17, SQUARE CORNER

| Width | 2 | 2½ | 3 inch. |
|---|---|---|---|
| Per doz | $7.50 | 7.50 | 7.50 |

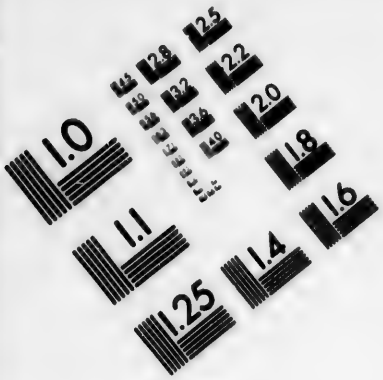
### No. 18, INSIDE SQUARE CORNER

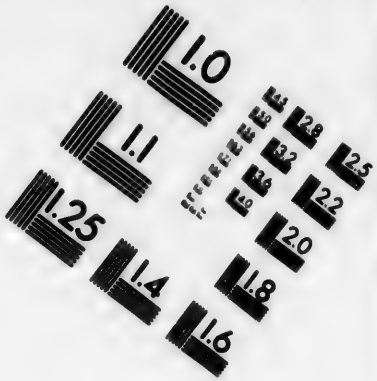
| Width | 2 | 2½ | 3 inch. |
|---|---|---|---|
| Per doz. | $11.25 | 11.25 | 11.25 |

### No. 19, BUTTON SLICK

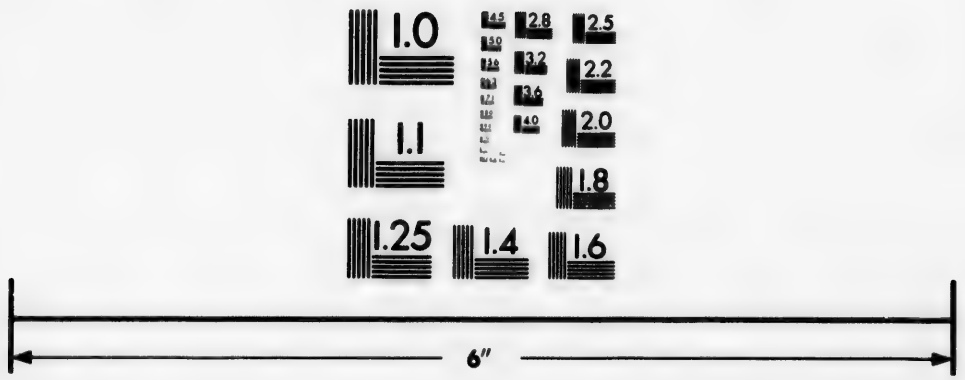
| Width | 1½ | 2 | 2½ inch. |
|---|---|---|---|
| Per doz. | $7.50 | 7.50 | 7.50 |

Size of all Tools where only one dimension is given is width of largest end.



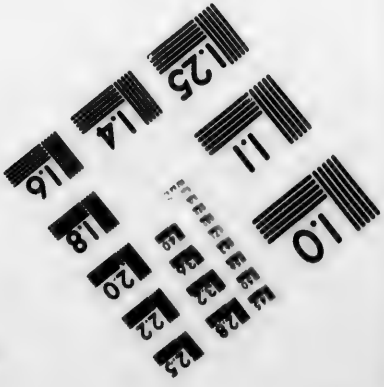




# IMAGE EVALUATION TEST TARGET (MT-3)









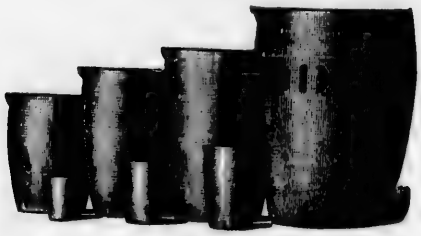

Photographic Sciences Corporation

23 WEST MAIN STREET
WEBSTER, N.Y. 14580
(716) 872-4503

2.8
3.2
2.5
2.2
2.0
1.8
1.0

# CRUCIBLES

**DIXON'S**



**Holding Capacity, three pounds of molten metal per number.**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Nos | 1 | 2 | 4 | 6 | 8 | 10 | 12 | | |
| Height outside | 3½ | 4 | 5 | 5¾ | 6¾ | 7⅞ | 8 | inch. | |
| Diameter at the top, outside | 2⅜ | 2⅞ | 4 | 4½ | 5¼ | 6 | 6¼ | " | |
| " " bilge, " | 2⅜ | 2⅞ | 4 | 4½ | 5¼ | 6¼ | 6¾ | " | |
| " " bottom, " | 1⅛ | 1⅜ | 2⅜ | 2⅝ | 3¼ | 4 | 5 | " | |
| Price each | $0.35 | 0.45 | 0.55 | 0.70 | 0.80 | 0.95 | 1.05 | | |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nos | 14 | 16 | 18 | 20 | 25 | 30 | 35 | 40 | 50 | 60 | 70 | 80 | 90 | |
| Height outside | 8½ | 8½ | 9¾ | 10½ | 10½ | 11½ | 11⅞ | 12½ | 13½ | 14 | 14½ | 15½ | 15⅞ | inch. |
| Diam. at top, outside | 6¾ | 7¼ | 7¼ | 7⅞ | 8¼ | 8⅝ | 9¼ | 9⅛ | 10¼ | 10½ | 10⅞ | 11¼ | 11¼ | " |
| " bilge, " | 7¼ | 7⅜ | 8¼ | 8⅜ | 9 | 9½ | 9⅞ | 10¼ | 11¼ | 11½ | 12 | 12⅜ | 12½ | " |
| " bottom, " | 5 | 5¼ | 5¼ | 6 | 6¼ | 6¼ | 7 | 7⅜ | 7⅞ | 8 | 8¼ | 8¼ | 9 | " |
| Price each | $0.91 | 1.04 | 1.17 | 1.30 | 1.62½ | 1.95 | 2.27½ | 2.60 | 3.25 | 3.90 | 4.55 | 5.20 | 5.85 | |




## LUBRICATING GRAPHITE

| | | |
|---|---|---|
| In 1 lb. packages | per doz. | $3.15 |
| In 5 lb. screw-top tin cans | per tin | 1.30 |

## PLUMBAGO

| | | |
|---|---|---|
| In bulk | per lb. | 0.30 |

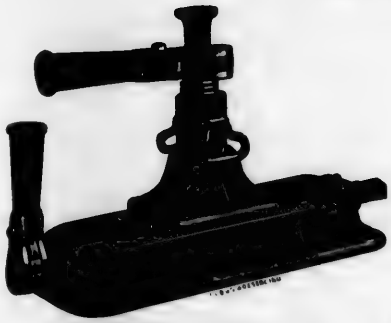
## FOUNDRY FACINGS

| | | |
|---|---|---|
| Charcoal Facings, in barrels about 250 lbs. | per barrel | $..... |
| Lead " " " 250 " | " | ..... |
| Seacoal " " " 250 " | " | ..... |

## PORTLAND CEMENT

| | | |
|---|---|---|
| White's Best English Portland Cement, in barrels about 275 lbs. | per barrel | $..... |
| Canadian " " " " 275 " | " | ..... |
| Calcined Plaster (Plaster of Paris) " " 275 " | " | ..... |
| Water Lime | " | ..... |

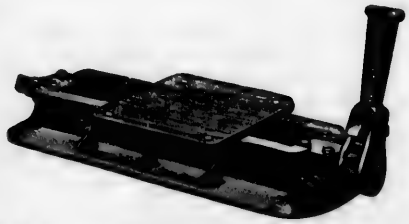
# LIFTING JACKS



**TRAVERSING SCREW JACK**

No. **37**—Height when down 15 inches, Rise 10 inches, Horizontal Movement 15 inches, Weight 120 lbs., Capacity 8 tons....each $107.25

No. **60**—Height when down 18 inches, Rise 14 inches, Horizontal Movement 15 inches, Weight 140 lbs., Capacity 15 tons....each 123.25



**TRAVERSING BASE**

Suitable for any style of Jack.

No. **40**—Horizontal movement 15 inches, Plate 10 x 12 inches, Weight 90 lbs., Capacity 25 tons.....each $66.00

No. **43**—Horizontal movement 15 inches, Plate 13 x 13 inches, Weight 180 lbs., Capacity 50 tons.....each 100.00

## HYDRAULIC JACKS

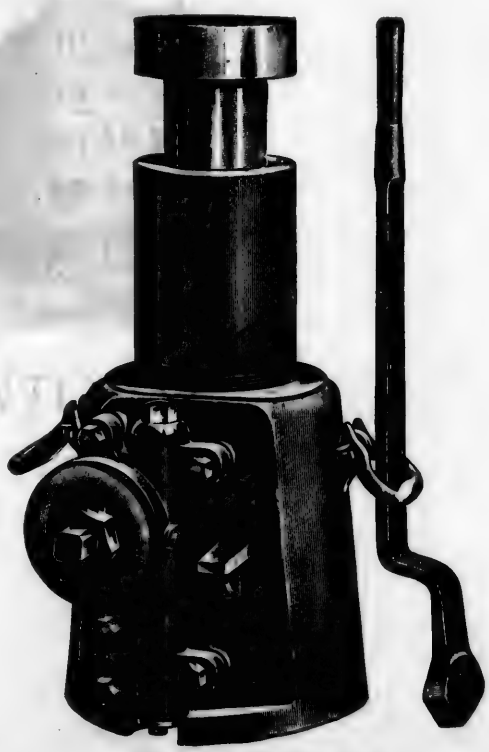
Outside Pump Style.

Valves and Plunger Packing can be looked after without loosening Pump from casing. Working parts of Pump are entirely protected from dust.

In tripping, the valves are operated entirely by the lever and if for any reason the operator removes his hand from the lever while lowering the load, the valves close and the load stops.

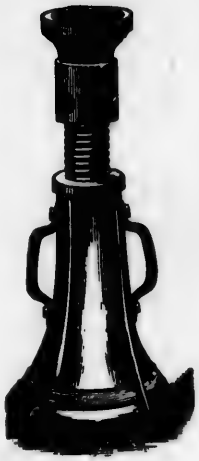
| Capacity Tons. | Rise Inches. | Height when down Inches. | Weight. | Price Each. |
|---|---|---|---|---|
| 60 | 9 | 19 | 276 lbs. | $313.50 |
| 60 | 12 | 22 | 304 " | 338.25 |
| 60 | 18 | 28 | 360 " | 387.75 |

The above Jacks to order only.

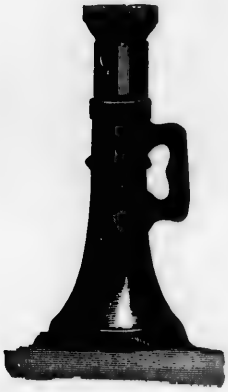


**60 TON HYDRAULIC JACK**

# JACK SCREWS



Nos. 3 and 5



No. 17



No. 18

## CAST IRON STAND, WROUGHT IRON SCREW, SQUARE THREAD

| No. | Description. | Diameter of Screw. | Height of Stand and Length of Screw. | Height over all when screwed down | Weight. | Price each. |
|---|---|---|---|---|---|---|
| 1 | Wide Flange Base, one handle | 2 | 13 | 19 | 54 | $ 8.00 |
| 3 | Wide Bell Bottom, " " | 1½ | 9½ | 14 | 27 | 5.50 |
| 5 | " " two " | 2½ | 15 | 21½ | 79 | 12.00 |
| 9 | Bottle Pattern one " | 2 | 19 | 25½ | 60 | 9.50 |
| 17 | Bell Bottom " " | 1¾ | 12 | 16 | 23 | 5.00 |
| 18 | " " " | 2 | 12 | 18 | 38 | 7.25 |

## LEVER JACKS



The Frame and Pawl, Malleable Iron; the Bar and Lever, Steel Forging; Milled Teeth, Steel Pins and Hardened Bearings.

| Nos. | 3 | 4 | 5 | 6 | |
|---|---|---|---|---|---|
| Height of Jack | 19 | 22 | 26½ | 29½ | inches. |
| Rise of Bar | 11 | 13 | 15 | 14 | |
| Weight of Jack | 27 | 46 | 83 | 100 | lbs. |
| Capacity | 2 | 4 | 10 | 15 | tons. |
| Each | $16.50 | 26.40 | 38.00 | 43.00 | |

## ALBANY JACKS




No. 4A—Height 30 inches, Rise of Bar 20 inches, Weight 60 lbs., Capacity 6 tons.....each $22.50



No. 18

| ght. | Price each. |
|---|---|
| 54 | $ 8.00 |
| 27 | 5.50 |
| 79 | 12.00 |
| 60 | 9.50 |
| 23 | 5.00 |
| 38 | 7.25 |

20 inches, .....each $22.50

# THE HYPER-ACME

## PULLEY BLOCKS

The friction in this block is automatically cut off as the load rises, and consequently only the load being raised need be reckoned on, thereby reducing the power required by more than one-half.

The ordinary screw block has only the single worm and that of a very fine pitch, thus making the process of raising very slow, where as in the "Hyper Acme" Pulley Block the worm is of very coarse pitch, causing the load to rise with great speed.

The lowering of light or heavy weights is done with ease and rapidity.

The screw is cut by special machinery to fit exactly the radius of the wheel, thereby adding very materially to the long life and safety of the block. Each block is tested to 50 per cent. above the nominal power it is sold for. One man can lift any weight up to 10 tons with far greater ease and very much quicker than with the ordinary pulley blocks.

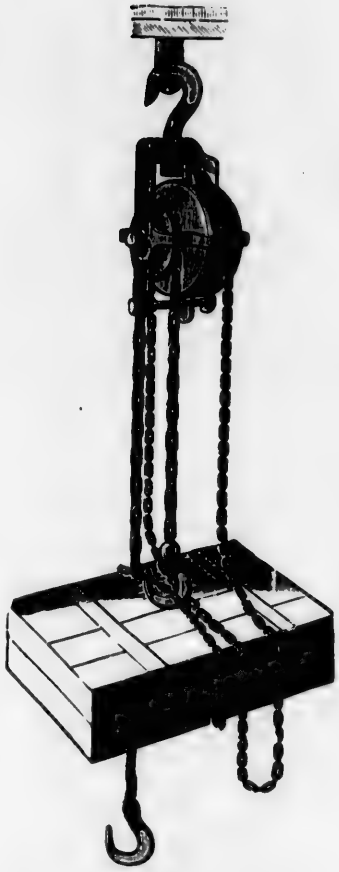


RICHARDS LEWIS
TORONTO, ONT.

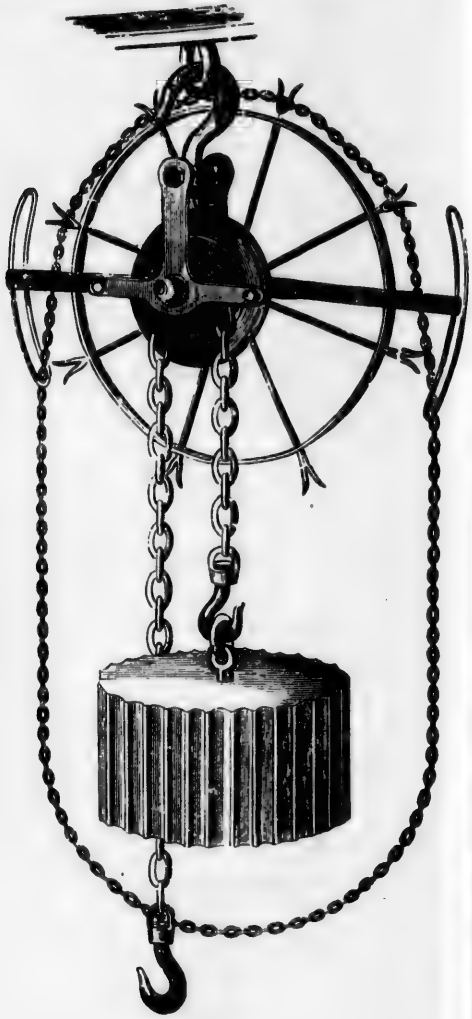
### PRICES

| Nominal Power .....tons | ½ | 1 | 1½ | 2 | 3 | 4 | 5 | 10 |
|---|---|---|---|---|---|---|---|---|
| Tested to..... " | ¾ | 1½ | 2¼ | 3 | 4½ | 6 | 7½ | 15 |
| With Chain to Lift 12 feet, each | $36.00 | 41.50 | 49.00 | 62.00 | 77.00 | 90.25 | 108.75 | ..... |
| " " 15 " " | ..... | ..... | ..... | 64.80 | 80.00 | 93.65 | 113.00 | ..... |
| " " 20 " " | ..... | ..... | ..... | ..... | ..... | ..... | 120.00 | 273.00 |
| Hand Chain Wheels..... | ..... | 3.75 | 4.60 | 5.00 | 6.25 | 7.50 | 8.75 | ..... |

# PATENT EPICYCLOIDAL PULLEY BLOCKS



No. 1



No. 3

One man can lift a ton with a set of Ton Blocks. 130 lbs. force required to lift 2240 lbs.

The ratio of speed of Hand and Load Chain is 37 to 1.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Tested to | ¼ | ½ | 1 | 1½ | 2 | 3 | tons. |
| No. 1, to lift 12 feet, including Hand and Lifting Chain....each | $13.50 | 16.20 | 24.35 | 29.50 | 34.75 | 56.00 | |
| Tested to | | | | 3 | 4 | 5 | tons. |
| No. 3, fitted with Sprocket-Wheel and Guides, to lift 15 feet....each | | | | $66.35 | 81.50 | 107.00 | |

2240 lbs.

| 2 | 3 tons. |
|---|---|
| 34.75 | 56.00 |
| 4 | 5 tons. |
| 81.50 | 107.00 |



# DIFFERENTIAL PULLEY BLOCKS

### WESTON'S IMPROVED

**With Chain Guides, which prevent the troublesome locking of chains, and enable the block to be used horizontally or at any desired angle.**
**With 40 feet of Chain to each.**

| Tested to ..... | ¼ | ½ | 1 | 1½ | 2 | 3 | 4 tons. |
|---|---|---|---|---|---|---|---|
| Each ..... | $9.10 | 10.75 | 15.00 | 19.00 | 22.85 | 28.85 | 37.50 |

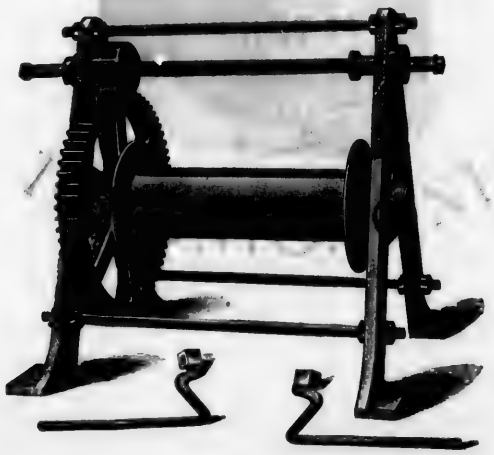
### ADDITIONAL CHAIN

| Size ..... | ¼ | ½ | 1 | 1½ | 2 | 3 | 4 tons. |
|---|---|---|---|---|---|---|---|
| Per 100 feet ..... | $19.20 | 19.20 | 26.00 | 30.60 | 34.50 | 38.40 | 42.20 |

## TOP SHEAVES FOR DIFFERENTIAL BLOCKS

| Size ..... | ¼ | ½ | 1 | 1½ | 2 | 3 | 4 tons. |
|---|---|---|---|---|---|---|---|
| Each ..... | $1.20 | 1.40 | 2.20 | 2.95 | 5.30 | 5.75 | 7.20 |

## HOISTING CRAB OR WINCH

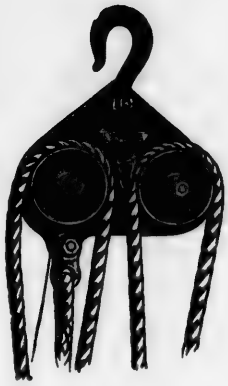


**Turned Shafts, the Bearings accurately bored, steel keyed.**

No. 1—Weight 550 lbs., Capacity 4 tons ..... each $50.00

**Post and Derrick Winches and other sizes of Crab Winches to order.**

# SURE-GRIP STEEL TACKLE BLOCKS



**Instructions for Reeving**

Enter rope at A, pass wedge, and follow arrows as shown in cut. It will be noticed that the two centre ropes *coming in contact with wedge* always travel in same direction at same time. Take twist out of rope.




**Nos. 3, 4, 5 and 6**



**Nos. 4½, 5½ and 6½**

These blocks will hold the load at any point without fastening the rope. The break is simply a wedge that drops by gravity between the upper sheaves and is absolutely automatic in its action. The face of the wedge is fluted in such a manner that the rope is not worn more than by an ordinary block. There is no back slip, which greatly reduces the effort of lifting. The blocks can be operated from any position.

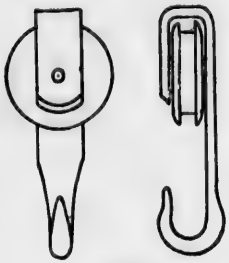
| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. 3—To be used with | ⅜ | inch rope, one man can lift | 300 | lbs., capacity | 600 | lbs. | | | | each | $ | 3.00 |
| " 4— | " | " | ½ | " | " | " | 350 | " | " | 1000 | " | " | " | 5.50 |
| " 4½- | " | " | ½ | " | " | " | 500 | " | " | 1200 | " | " | " | 10.00 |
| " 5— | " | " | ⅝ | " | " | " | 400 | " | " | 1800 | " | " | " | 7.00 |
| " 5½- | " | " | ⅝ | " | " | " | 600 | " | " | 2000 | " | " | " | 12.00 |
| " 6— | " | " | ¾ | " | " | " | 450 | " | " | 2500 | " | " | " | 8.50 |
| " 6½- | " | " | ¾ | " | " | " | 850 | " | " | 4000 | " | " | " | 14.00 |

Blocks Nos. 3, 4, 5 and 6 require rope 5 times, and Nos. 4½, 5½ and 6½, 7 times the height to be lifted. The above prices include upper and lower blocks only. Rope Extra.

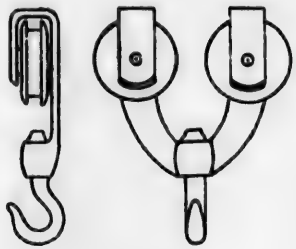
**Test of Sure-Grip Blocks**

| Nos. | 3 | 4 | 5 | 6 | 6½ |
|---|---|---|---|---|---|
| Tested without breaking to | 2800 | 3800 | 4500 | 5800 | 9000 lbs. |
| Capacity claimed | 600 | 1000 | 1800 | 2500 | 4000 " |

# TRACK TROLLEYS



SINGLE



DOUBLE

| | | | |
|---|---|---|---|
| Size of Sheave | 2½ | 3½ | 4½ inch. |
| Single Trolleys, each | $1.90 | 3.35 | 6.20 |
| Double " " | 9.50 | 11.40 | 15.20 |



No. 979

## THE "EDDY" TACKLE BLOCKS

Forged Steel Shells.

Each Block has a Becket.

| Size | 3½ | 4 | 5 | 6 | 8 inch. |
|---|---|---|---|---|---|
| For Rope | ⅜ | ½ | ⅝ | ¾ | 1 " |
| Single, each | $0.75 | 0.85 | 0.90 | 1.10 | 1.65 |
| Double " | 1.45 | 1.60 | 1.75 | 2.00 | 2.85 |



No. 980



No. 177, SNATCH BLOCK

## SNATCH BLOCKS

LOCKPORT PATTERN No. 177

Steel Shell, Iron Sheave, Japanned.

| Length of Shell. | 7 | 8 | 10 | 12 | 14 | 16 inch. |
|---|---|---|---|---|---|---|
| For Rope | ½ | 1 | 1¼ | 1½ | 1¾ | 2 " |
| Each | $5.50 | 7.00 | 9.00 | 11.50 | 15.00 | 20.00 |

## GIN BLOCKS

With Wrought Iron Frame, Swivel Hooks.

| Diameter of Wheel | 12 | 14 | 16 | 18 inch. |
|---|---|---|---|---|
| For Rope | 1 | 1¼ | 1½ | 1¾ " |
| Each | $4.30 | 4.60 | 6.40 | 6.60 |



GIN BLOCK

# WROUGHT IRON TACKLE BLOCKS

## LONDON PATTERN






SNATCH BLOCK

| For Rope | | ⅝ | ¾ | ⅞ | 1 | 1¼ | 1½ | 1¾ | 2 inch. |
|---|---|---|---|---|---|---|---|---|---|
| One Sheave | each | $1.30 | 1.35 | 1.95 | 2.30 | 2.75 | 3.50 | 4.00 | 7.35 |
| Two " | " | 1.85 | 2.15 | 2.65 | 3.50 | 4.25 | 5.90 | 8.30 | 11.80 |
| Three " | " | 2.20 | 2 65 | 3.50 | 4.80 | 5.90 | 8.10 | 11.80 | 15.65 |
| Snatch | " | .... | .... | 2.40 | 3.15 | 3.70 | 4.60 | 5.90 | 8.85 |

## "STAR" STEEL TACKLE BLOCKS





| Size | | 4 | 5 | 6 | 7 | 8 inch. |
|---|---|---|---|---|---|---|
| For Rope | | ¼ | ⅜ | ½ | ⅝ | 1 " |
| One Sheave | each | $0.90 | 1.00 | 1.25 | 1.50 | 1.85 |
| Two " | " | 1.75 | 1.90 | 2.25 | 2.70 | 3.20 |
| Three " | " | 2.50 | 2.75 | 3.25 | 4.00 | 4.75 |

# TACKLE BLOCKS



SINGLE WITH BECKET



DOUBLE WITH BECKET

Regular Inside Iron Strapped Blocks, Loose Hooks and Beckets, Iron Sheaves.

| Size of Shell | 3 | 3½ | 4 | 5 | 6 | 7 | 8 | 9 | 10 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|
| For Rope | ⅜ | ⅜ | ½ | ½ | ⅝ | ¾ | 1 | 1¼ | 1¼ | " |
| Single ..... each | $0.70 | 0.75 | 0.85 | 0.90 | 1.10 | 1.30 | 1.65 | 1.85 | 2.75 | |
| Double ..... " | 1.30 | 1.45 | 1.60 | 1.75 | 2.00 | 2.40 | 2.85 | 3.40 | 4.50 | |

## PATENT ROLLER BUSHED

Inside Iron Strapped Blocks, Loose Hooks and Beckets.

| Size of Shell | 3 | 3½ | 4 | 5 | 6 | 7 | 8 | 9 | 10 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|
| For Rope | ⅜ | ⅜ | ½ | ½ | ⅝ | ¾ | 1 | 1¼ | 1¼ | " |
| Single ..... each | $1.10 | 1.15 | 1.20 | 1.25 | 1.50 | 1.70 | 2.25 | 2.50 | 3.50 | |
| Double ..... " | 2.00 | 2.20 | 2.25 | 2.35 | 2.85 | 3.35 | 4.15 | 4.70 | 6.00 | |

## BLOCKS FOR ROPE STRAPS

SHELLS RIVETTED, IRON SHEAVES



SINGLE



DOUBLE

| Size of Shell | 2 | 3 | 4 | 5 | 6 | inch. |
|---|---|---|---|---|---|---|
| For Rope | 7/16 | 7/16 | ½ | ⅝ | ¾ | " |
| Single ..... each | $0.22 | 0.28 | 0.36 | 0.45 | 0.54 | |
| Double ..... " | 0.40 | 0.48 | 0.66 | 0.82 | 0.99 | |



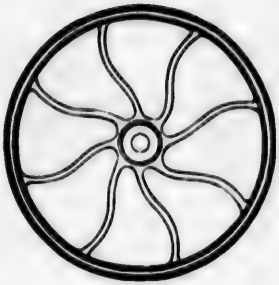

## PATENT STEEL ROLLER BUSHINGS

WITH RIVETTED SEPARATOR

| Hole or Pin | ½ | ⅝ | inch. |
|---|---|---|---|
| Each | $0.50 | 0.70 | |

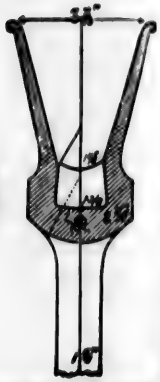
# CAST IRON WHEELS

## FOR TRANSMISSION OF POWER BY WIRE ROPES



SKETCH OF WHEEL





SECTION OF RIM OF 6 Ft. WHEEL

### PRICE OF WHEELS

Bored to Fit Shaft, and lined with Leather Filling.

| Diameter | 2 | 2½ | 3 | 3½ | 4 | 5 | 6 | 7 | 8 | feet. |
|---|---|---|---|---|---|---|---|---|---|---|
| Each | $18.00 | 20.00 | 22.50 | 24.00 | 36.00 | 48.00 | 72.00 | 85.00 | 126.00 | |

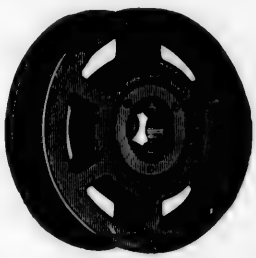
Special prices for larger sizes.

### Table of Transmission of Power by Wire Ropes

Showing the necessary size and speed of wheels and rope to obtain any desired amount of power.

| Diameter of Rope | ¼ | ¼ | ⅜ | ⅜ | ½ | ½ | ½ | ½ | ½ | ⅝ | ⅝ | ⅝ | ⅝ | ⅝ | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diameter of Pulley | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 6 | 7 | 7 | 7 | 8 | 8 | feet. |
| Number of Revolutions | 100 | 140 | 100 | 120 | 100 | 120 | 100 | 120 | 140 | 80 | 100 | 120 | 80 | 100 | |
| Horse Power | 2 | 3 | 4 | 5 | 8.6 | 10.3 | 13.4 | 16.1 | 18.7 | 16.9 | 21.1 | 25.3 | 22 | 27.5 | |

## CAST IRON SHEAVES



### WITH PATENT ROLLER BUSHINGS

| Diameter | 1¾ | 2 | 2¼ | 3 | 3½ | 4¼ | 4¾ | 5½ | 6 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|
| Thickness | ½ | ½ | ⅝ | ⅝ | 1 | 1 | 1¼ | 1¼ | 1¼ | " |
| Size of Hole | ⅜ | ⅜ | ⅜ | ⅜ | ½ | ½ | ½ | ½ | ½ | " |
| Black.....each | $0.50 | 0.55 | 0.60 | 0.65 | 0.80 | 0.90 | 1.15 | 1.25 | 1.50 | |
| Galvanized ..... " | 0.55 | 0.60 | 0.65 | 0.75 | 0.95 | 1.10 | 1.30 | 1.45 | 1.90 | |

# CAST IRON SHEAVES



## FOR ROPE

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diameter | 1¾ | 2 | 2¼ | 2¼ | 2½ | 3 | 3 | 3½ | 3½ | 4 | 4¼ | 4½ | inch. |
| Thickness | ½ | ½ | ½ | ½ | ½ | ½ | ⅝ | ⅝ | 1 | 1 | 1 | 1¼ | " |
| Size of Hole | ¼ | ¼ | ¼ | ¼ | ¼ | ¼ | ¼ | ¼ | ¼ | ¼ | ¼ | ¼ | " |
| Black ..... each | $0.06 | 0.06½ | 0.07½ | 0.07½ | 0.09 | 0.10½ | 0.12 | 0.16½ | 0.18 | 0.19½ | 0.21 | 0.28½ | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diameter | 4¾ | 5 | 5¾ | 5½ | 6 | 6¼ | 6¼ | 7 | 7 | 8 | 8 | inch. |
| Thickness | ¾ | 1¼ | 1¼ | 1¼ | 1½ | 1½ | 1½ | 1½ | 1½ | 1½ | 2 | " |
| Size of Hole | ¼ | ¼ | ¼ | ¼ | ½ | ½ | ½ | ½ | ½ | 1 | 1 | " |
| Black ..... each | $0.36 | 0.39 | 0.54 | 0.59 | 0.48 | 0.54 | 0.70 | 0.60 | 0.75 | 1.30 | 1.80 | |

## FOR CHAIN

| | | | | | |
|---|---|---|---|---|---|
| Diameter | 5 | 6 | 8 | 10 | 12 | inch. |
| Thickness | 1⅛ | 1¼ | 1½ | 2 | 2½ | " |
| Size of Hole | ½ | ½ | ½ | 1 | 1 | " |
| For Chain | ¼ | ⅜ or ½ | ½ or ⅝ | ⅝ or ¾ | ⅞ or 1 | " |
| Black ..... each | $0.50 | 0.70 | 1.30 | 2.25 | 3.90 | |

**Japanned, with Turned Grooves and Bored Pin Holes. Under 3½ inch are solid, others like cut.**

## CLOTHES LINE PULLEYS



**No. 65, 2½ Inch**

| | | |
|---|---|---|
| No. 65—2½ inch, Japanned ..... | per doz. | $0.70 |
| " 165—2½ " Galvanized ..... | " | 1.45 |

One dozen in a box.

## WELL WHEELS



**No. 1, CAST IRON, JAPANNED**

| Size ..... | 8 | 10 | 12 | 14 | inch. |
|---|---|---|---|---|---|
| No. 1 ..... Per doz. | $3.40 | 4.50 | 5.65 | 9.75 | |

# HAY FORK PULLEYS

## SWIVEL EYE



No. 433




No. 565



No. 384

No, **433**—Cast Frame Pulley, 6 inch Maple Sheave, 1 inch Self-Lubricating Pin ..... .....per doz. $2.50
" **565**—Steel " " 5½ " Cast Iron Sheave, revolving on a large Axle..... " 2.70
" **384**—Cast " " 6 " Maple Sheave, 1 inch Self-Lubricating Pin..... " 3.00



No. 709



Nos. 1 and 11

### No. 709

"Hartz" Self-Oiling, Steel Shell, Wrought Iron Swivel Ring, Sheave 4¼ inch diameter, 1½ inch wide.

No. **709**.....per doz. $3.90

### Nos. 1 and 11

Japanned, Extra Strong and Smooth Running, Sheave 5 inch diameter for 1 inch Rope.

No. **1**—Stationary Eye.....per doz. $2.70
" **11**—Swivel Eye..... " 3.00



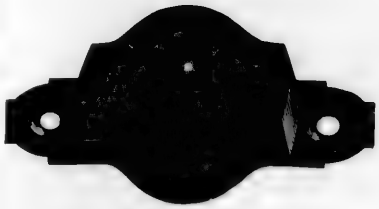
No. 384

..per doz. $2.50
... " 2.70
... " 3.00

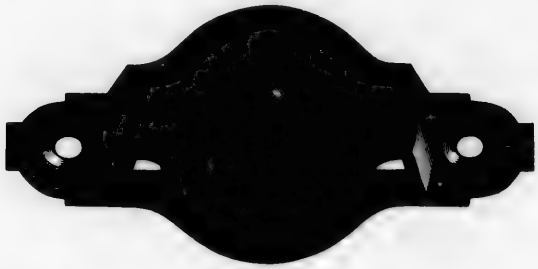
h wide.
per doz. $3.90

per doz. $2.70
" 3.00

# JAPANNED SIDE PULLEYS



No. 25, ¾ Inch

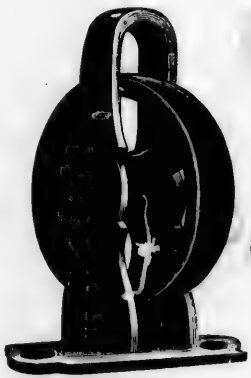


No. 25, 1½ Inch

| Size | 1 | 1¼ | 1½ | 1¾ | 2 | 2¼ | 2½ inch. |
|---|---|---|---|---|---|---|---|
| No. 25 ..... per doz. | $0.72 | 0.78 | 0.80 | 0.98 | 1.30 | 1.70 | 2.00 |

2 inch and smaller, two dozen in a box; 2¼ and 2½ inch one dozen.

## UPRIGHT PULLEYS

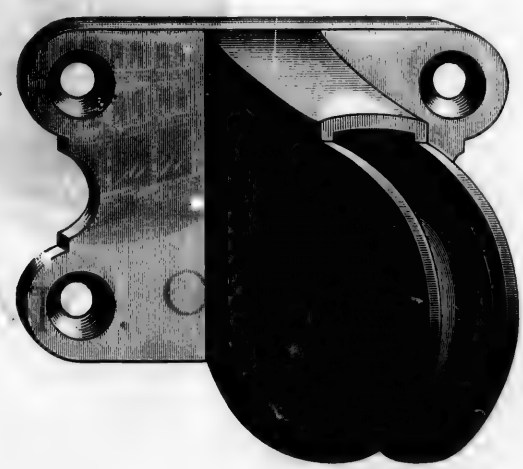


No. 55

No. 55—1¾ inch, Japanned ..... per doz. $0.90
" 55—2 " " ..... " 1.05

Two dozen in a box.

## HOT HOUSE PULLEYS

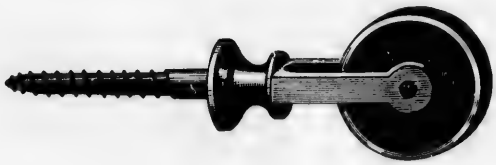


No. 85, 1¾ inch

No. 85—1¾ inch, Japanned ..... per doz. $1.70
" 85—2 " " ..... " 2.00

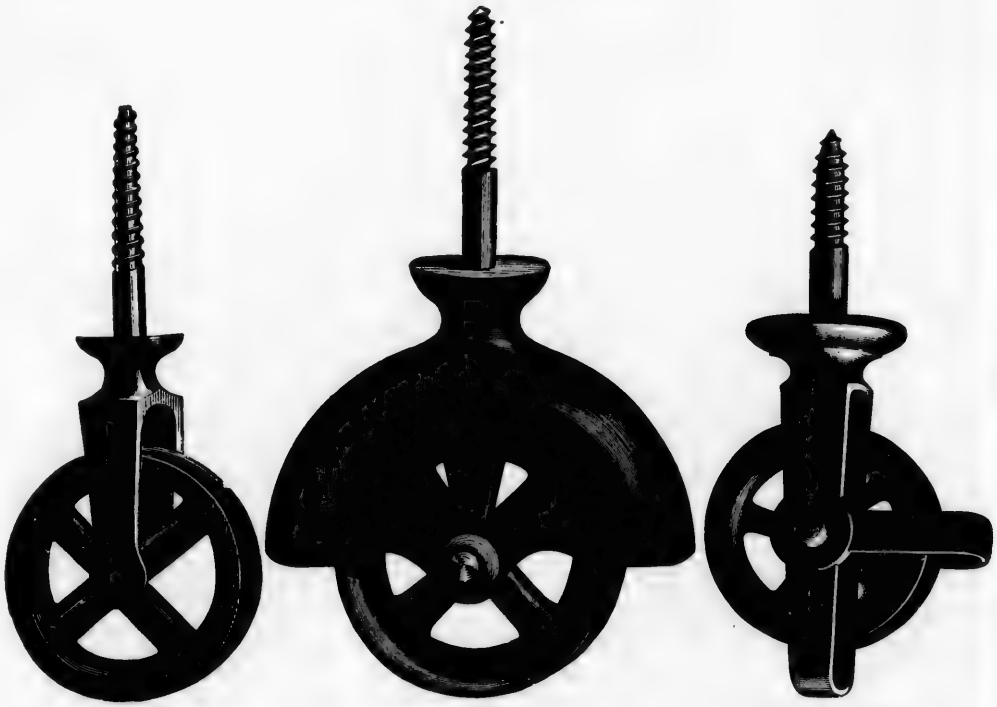
One dozen in a box.

# BRASS SCREW PULLEYS



| Size | | ½ | ⅝ | ¾ | ⅞ | 1 | 1¼ | 1½ inch. |
|---|---|---|---|---|---|---|---|---|
| No. 274—Single | per doz. | $0.57 | 0.75 | 0.90 | 1.10 | 1.55 | 2.20 | 3.00 |
| " 284—Double | " | 1.50 | 1.90 | 2.20 | 2.55 | 3.00 | .... | .... |

## JAPANNED SCREW PULLEYS



No. 45, 1½ Inch

No. 43, 2 Inch

No. 46, 1½ Inch

| Size | | 1½ | 1¾ | 2 | 2¼ | 2½ | 3 | inch. |
|---|---|---|---|---|---|---|---|---|
| No. 45 | per doz. | $0.55 | 0.68 | 0.90 | 1.10 | 1 30 | .... | |
| " 43 | " | .... | .... | .... | .... | 1.80 | 2.40 | |
| " 46 | " | 1.10 | .... | .... | .... | .... | .... | |

No. 45, 1½ to 2½ inch, two dozen in a box; others one dozen.

# TACKLE OR AWNING PULLEYS

## WITH SCREW EYE

### No. 71, JAPANNED

With Bright Wire Screw Eye.

| Size | ½ | ⅝ | ¾ inch. |
|---|---|---|---|
| Per dozen | $0.58 | 0.68 | 0.78 |

### No. 171, GALVANIZED

With Brass Screw Eye.

| Size | ½ | ⅝ | ¾ inch. |
|---|---|---|---|
| Per dozen | $0.80 | 1.00 | 1.10 |



Nos. 71 and 171, ½ Inch



Nos. 71 and 171, ¾ Inch



Nos. 73 and 173, ⅝ Inch



Nos. 73 and 173, 1¼ Inch



Nos. 73 and 173, 1½ Inch

## SWIVEL EYE

### No. 73, JAPANNED

| Size | ½ | ⅝ | ¾ | 1 | 1¼ | 1½ | 1¾ | 2 inch. |
|---|---|---|---|---|---|---|---|---|
| Per dozen | $0.50 | 0.60 | 0.80 | 1.00 | 1.10 | 1.60 | 2.40 | 3.20 |

### No. 173, GALVANIZED

| Size | ½ | ⅝ | ¾ | 1 | 1¼ | 1½ | 1¾ | 2 inch. |
|---|---|---|---|---|---|---|---|---|
| Per dozen | $0.75 | 0.85 | 1.10 | 1.30 | 1.80 | 2.40 | 3.70 | 4.80 |

2 inch, half-dozen in a box; other sizes, one dozen.

# TACKLE OR AWNING PULLEYS

(Not Swivel Eye.)



Nos. 74 and 174, ½ Inch



Nos. 74 and 174, ¾ Inch



Nos. 74 and 174, 1½ Inch

### SINGLE No. 74, JAPANNED

| Size | ½ | ¾ | 1 | 1¼ | 1½ | 1¾ | 2 | 2½ inch. |
|---|---|---|---|---|---|---|---|---|
| Per dozen | $0.40 | 0.60 | 0.70 | 0.80 | 1.00 | 1.30 | 1.80 | 3.50 |

### SINGLE No. 174, GALVANIZED

| Size | ¾ | 1 | 1¼ | 1½ | 1¾ | 2 inch. |
|---|---|---|---|---|---|---|
| Per dozen | $0.85 | 1.00 | 1.30 | 1.90 | 2.60 | 4.00 |

### DOUBLE No. 76, JAPANNED

| Size | ¾ | 1 | 1¼ | 1½ | 1¾ | 2 inch. |
|---|---|---|---|---|---|---|
| Per dozen | $0.85 | 1.00 | 1.10 | 1.60 | 2.40 | 3.70 |

### DOUBLE No. 176, GALVANIZED

| Size | ¾ | 1 | 1¼ | 1½ | 1¾ | 2 inch. |
|---|---|---|---|---|---|---|
| Per dozen | $1.30 | 1.60 | 1.80 | 3.00 | 4.80 | 6.00 |

### SINGLE No. 75, JAPANNED

2 inch, with Eye at each end ..... per doz. $1.00

2 inch, half-dozen in a box; other sizes, one dozen.

## GALVANIZED TACKLE BLOCKS

With Loose Wrought Iron Hooks.



| Length of Shell | 3 | 3½ | 4 inch. |
|---|---|---|---|
| Size of Sheave | 1½ x ½ | 2 x ⅝ | 2½ x ¾ " |
| No. 429—Single ..... each | $0.45 | 0.48 | 0.75 |
| " 430—Double ..... " | 0.50 | 0.60 | 0.95 |

174, 1½ Inch

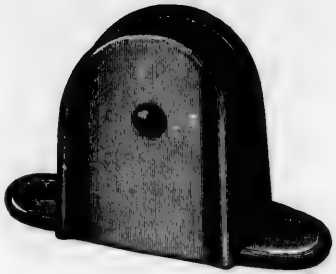
| | |
|---|---|
| 2 | 2½ inch. |
| 1.80 | 3.50 |
| 1¾ | 2 inch. |
| 2.60 | 4.00 |
| 1¾ | 2 inch. |
| 2.40 | 3.70 |
| 1¾ | 2 inch. |
| 4.80 | 6.00 |

....per doz. $1.60

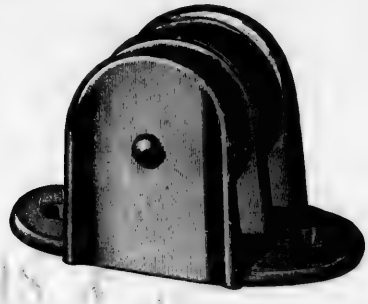
| | |
|---|---|
| 3½ | 4 inch. |
| 2 x ⅜ | 2½ x ⅝ " |
| 0.48 | 0.75 |
| 0.60 | 0.95 |

# DECK HALYARD BLOCKS

## GALVANIZED IRON



No. 449, Single



No. 450, Double

| | |
|---|---|
| No. 449—Sheave 1½ x ⅛ inch.....each | $0.25 |
| " 449— " 2 x ⅛ " ..... " | 0.50 |
| No. 450—Sheave 1½ x ⅛ inch.....each | $0.50 |
| " 450— " 2 x ⅛ " ..... " | 1.00 |

## GALVANIZED SNATCH BLOCKS

### MALLEABLE IRON



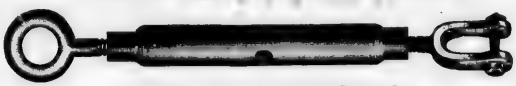
No. 451, With Plate



No. 452, With Eye

| | |
|---|---|
| No. 451—Sheave 1¼ x ⅛ inch.....each | $0.25 |
| " 451— " 1½ x ⅛ " ..... " | 0.35 |
| No. 452—Sheave 1¼ x ⅛ inch.....each | $0.20 |
| " 452— " 1½ x ⅛ " ..... " | 0.25 |

## GALVANIZED TURNBUCKLES



No. 225, PIPE TURNBUCKLES

| Diameter of Screw..... | ¼ | 5/16 | ⅜ | 7/16 | ½ inch. |
|---|---|---|---|---|---|
| No. 225.....each | $1.00 | 1.10 | 1.30 | 1.50 | 1.80 |

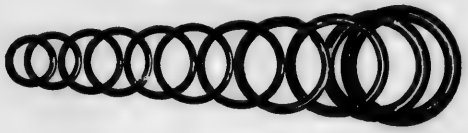


No. 221, TURNBUCKLE WITH HOOK AND EYE

| Diameter of Screw..... .... | ¼ | 5/16 | ⅜ | 7/16 | ½ | 9/16 | ⅝ | ¾ | ⅞ | 1 | 1⅛ inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. 221..... .....each | $1.00 | 1.10 | 1.30 | 1.50 | 1.80 | 2.10 | 2.40 | 3.50 | 4.25 | 5.50 | 7.00 |

# GALVANIZED GROMMET RINGS

**LIGHT**



| Size | ⅜ | ½ | ⅝ | ¾ | ⅞ | 1 | 1¼ inch |
|---|---|---|---|---|---|---|---|
| No. **601** ..... per gross | $0.35 | 0.40 | 0.45 | 0.65 | 0.85 | 1.15 | 2.00 |

## MAST HOOPS



Made of ¼ inch Galvanized Iron.

| Measure in clear | 2 | 3 | 4 | 5 | 6 inch. |
|---|---|---|---|---|---|
| No. **275** ..... per doz. | $0.50 | 0.60 | 0.85 | 1.10 | 1.30 |

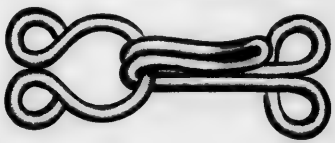
**Yacht Mast Hoops,** Copper Rivetted, all sizes, 3 to 14 inch. ..... per inch $0.04

## SHEET BRASS WASHER GROMMETS



| Size ..... Nos. | 0 | 1 | 2 | 3 | 4 inch. |
|---|---|---|---|---|---|
| Size of Hole ..... | 1/16 | ⅛ | ⅛ | 1/16 | 1/16 " |
| No. **604** .. per gross | $0.50 | 0.80 | 1.10 | 1.50 | 2.50 |

## TENT HOOKS AND EYES



| | | |
|---|---|---|
| No. **1300**—Brass ..... | per gross | $2.70 |
| No. **1306**—Galvanized ..... | " | 1.15 |

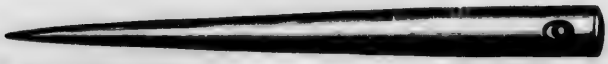
## INSERTING DIES



Inserts Sheet Brass Washer and Teeth Grommets.

| For Nos. | 0 | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|
| No. **620** ..... each | $3.00 | 3.25 | 3.40 | 3.55 | 3.75 |

# MARLINE SPIKES



| TEMPERED STEEL, POLISHED | | | | STEEL POINTS, JAPANNED | | | |
|---|---|---|---|---|---|---|---|
| Size | 10 | 12 | inch. | Size | 8 | 10 | inch. |
| No. 633 ..... per doz. | $6.00 | 7.50 | | No. 635 ..... per doz. | $2.70 | 4.50 | |

## CAULKING IRONS





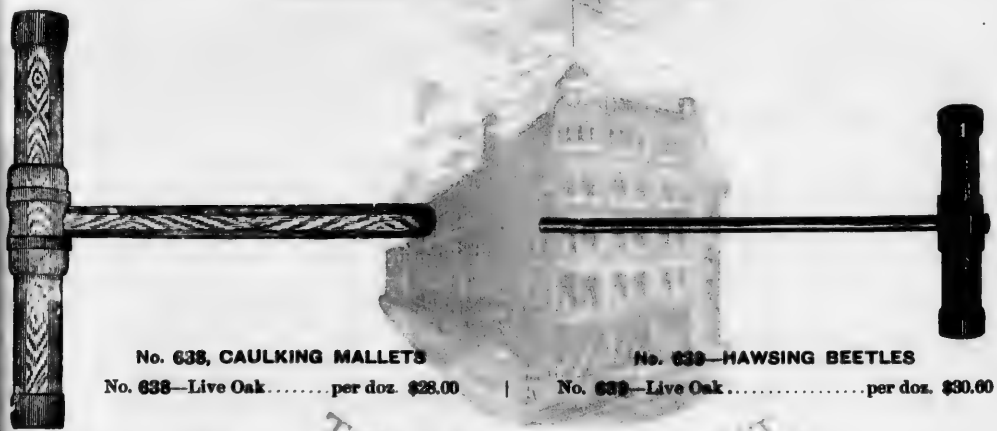
No. 640, CAULKING IRONS — No. 641, DUMB IRONS

| Nos | 640 | 640 | 640 | 640 | 641 |
|---|---|---|---|---|---|
| Crease | 0 | 1 | 2 | 3 | Dumb. |
| Thickness | 1/4 | 1/4 | 1/4 | 1/4 | .... inch. |
| Per dozen | $6.75 | 6.90 | 7.15 | 7.30 | 7.90 |

Klondike Boat Caulking Irons, total length 5 inches, crease 1/4 inch thick, 2 inches wide ..... per doz. $5.25

PRICE LEWIS & SON LIMITED

## CAULKING MALLETS AND BEETLES



No. 638, CAULKING MALLETS

No. 638—Live Oak ..... per doz. $28.00

No. 639—HAWSING BEETLES

No. 639—Live Oak ..... per doz. $30.60

TORONTO, ONT.

## SHIP SCRAPERS



No. 649—Blades 1/8 inch thick, 5 inch cut ..... per doz. $5.65

## FOG HORNS



WOOD MOUTHPIECE

| Length | 24 | 35 | 49 | inch. |
|---|---|---|---|---|
| No. 650 ..... per doz. | $9.45 | 11.85 | 16.50 | |

# GALVANIZED THIMBLES



ROUND



HEART SHAPE

**ROUND**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Diameter (edge to edge) | | ¾ | 1 | 1¼ | 1½ | 2 | 2¼ | 2½ inch. |
| No. 598 | per doz. | $0.25 | 0.35 | 0.40 | 0.45 | 0.60 | 0.70 | 0.80 |

**HEART SHAPE**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Width of Score | | ⅜ | ½ | ⅝ | ¾ | ⅞ | 1 | inch. |
| For Wire Rope, circumference | | 1 | 1¼ | 2 | 2½ | 2¾ | 3 | " |
| No. 594 | per doz. | $1.20 | 1.45 | 1.55 | 1.70 | 2.35 | 2.60 | |

## GALVANIZED HOOKS AND THIMBLES



No. 328



No. 329

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Size | | ¼ | ⅜ | ½ | ⅝ | ¾ | inch. |
| No. 328—Hooks and Thimbles | per doz. | 2.25 | 2.55 | 2.95 | 3.65 | 4.80 | |
| " 329—¼-inch Sister or Match Hooks | per doz. | | | | | | $3.40 |

Measure diameter of Hook at largest part.

## THE CROSBY WIRE ROPE CLIP



Are the most effective Wire Rope Fastenings in the market.

| | | | | | |
|---|---|---|---|---|---|
| Diameter of Rope | | ⅜ | ½ | ⅝ | ¾ inch. |
| Price | each | $0.40 | 0.45 | 0.55 | 0.60 |

## WIRE ROPE SOCKETS



No. 590

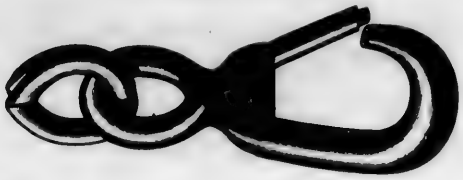


No. 591

| | | | | | | |
|---|---|---|---|---|---|---|
| Size | | ⅜ | ½ | ⅝ | ¾ | inch. |
| No. 590—Black | per doz. | 1.80 | 2.00 | 2.25 | 2.85 | |
| " 591— " | " | 2.20 | 2.50 | 3.15 | 3.75 | |

# GAFF-TOPSAIL HOOKS

## GALVANIZED SELF-MOUSING



| | |
|---|---|
| No. 338—$\frac{1}{4}$ inch with Thimbles | per doz. $7.80 |
| " 338—$\frac{7}{16}$ " without Thimbles | " 6.85 |

## GALVANIZED JIB HANKS



| Size inside | 1 | 1¼ | 1½ | 2 inch. |
|---|---|---|---|---|
| No. 573-Single Stay, per doz. | $0.65 | 0.70 | 0.75 | 0.90 |

## GALVANIZED S. HOOKS



| Size | ¼ | 5/16 | ⅜ inch. |
|---|---|---|---|
| No. 240 per doz. | $0.50 | 0.65 | 0.95 |

## GALVANIZED CHAIN SHACKLES



No. 217, with Pin



No. 215, with Screw

| Size | ¼ | 5/16 | ⅜ | ½ inch. |
|---|---|---|---|---|
| No. 217—With Pin per doz. | $2.75 | 2.75 | 3.00 | 4.00 |
| " 215—With Screw " | 3.00 | 3.00 | 3.25 | 4.50 |

## GALVANIZED BOOM BANDS



No. 258



No. 267

| Size | 2½ | 3 | 3½ | 4 inch. |
|---|---|---|---|---|
| No. 258 each | $0.90 | 1.05 | 1.25 | 1.40 |

| | |
|---|---|
| No. 266—3 inch Boom Bands with Traveller | each $1.25 |
| " 266—4 " " " | " 1.60 |
| " 267—5 " " adjustable | " 5.25 |

# GALVANIZED BOAT CLEATS

## MALLEABLE



OPEN BASE

| Nos. | | 7 | 8 | 9 | 10 | 11 | |
|---|---|---|---|---|---|---|---|
| Length | | 3½ | 4½ | 5½ | 6 | 7 | inch. |
| No. 318 | per doz. | $1.20 | 1.50 | 1.80 | 2.50 | 3.00 | |

No. 316—Cast Iron Ship Cleats, Heavy Galvanized, length 8½ inch ..... per doz. $4.50
" 316— " " " " " 10½ " ..... " 9.00

## LINE CLEATS



No. 111



No. 113

No. 111—2 inch, Galvanized.....per doz. $0.40 , No. 113—2½ inch, Galvanized.....per doz. [0.65

Two dozen in a box.



No. 117

No. 117—3½ inch, Cast Iron, Galvanized.....per doz. 1.30

One dozen in a box.



No. 114

No. 114—4½ inch, Malleable Iron, Galvanized .....per doz. 0.60
" 115—6 " " " .....  " 0.90

Two dozen in a box.

## GALVANIZED CHOCKS



No. 313

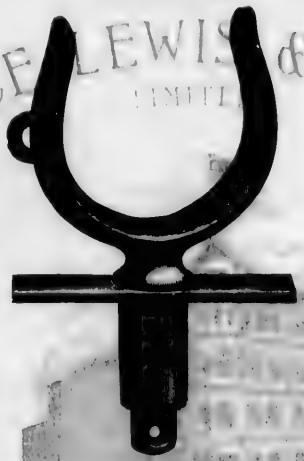


No. 311

| | 3 | 3½ | 4 | 4½ | 5 | 5½ | 6½ | 7½ | 8½ | 10½ inch. |
|---|---|---|---|---|---|---|---|---|---|---|
| Entire Length | | | | | | | | | | |
| No. 313—Straight, per single doz. | .... | $1.10 | 1.45 | 1.80 | 2.30 | 2.55 | 4.00 | 5.80 | 8.70 | 9.60 |
| ½" 311—Bow Chocks, per dozen pair | 1.80 | .... | .... | 2.20 | .... | 3.60 | .... | .... | .... | .... |

## SOCKET OAR LOCKS

### MALLEABLE IRON



RICE LEWIS & SON
LIMITED

| Nos | 10 | 11 | 12 |
|---|---|---|---|
| Size between Horns | 1¼ | 2 | 2¼ inch. |
| No. 294—Galvanized, per dozen pair | $4.50 | 5.25 | 7.50 |

## MALLEABLE IRON TINNED OAR LOCKS

TORONTO, ONT.



No. 1



No. 2



No. 4

| | | |
|---|---|---|
| No. 1—2¼ inch opening | per dozen pair | $6.00 |
| " 2—2½ " " | " " | 6.00 |
| " 4—2¾ " " | " " | 7.20 |

# WATER DECK IRONS

**For the Protection of Decks, Floors and Partitions against Fires from Heated Stove Pipes.**



**GALVANIZED**

| Size | 3 | 4 | 5 | 6 inch. |
|---|---|---|---|---|
| Each | $1.05 | 1.35 | 1.75 | 2.30 |

**PLAIN**

| Size | 3 | 4 | 5 | 6 inch. |
|---|---|---|---|---|
| Each | $0.70 | 0.95 | 1 35 | 1.70 |

**The sizes indicate openings for pipe.**

## CHAIN DECK PIPES

**GALVANIZED**

| Size | 1¾ | 2 | 2¼ | 2½ | 3 inch. |
|---|---|---|---|---|---|
| For Chain | ⅜ | ½ | ⅜ | ½ | ½ " |
| Each | $0.75 | 0.85 | 0.95 | 1.10 | 1.25 |



## BRASS SIDE LIGHTS



| Diameter of Glass in the Clear | 5 | 6 | 7 | 8 inch. |
|---|---|---|---|---|
| " " Opening in Flange | 6 | 7 | 8 | 9 |
| No. 618—Round Flange, each | $4.00 | 6.00 | 8.00 | 9.00 |
| " 620— " " " | 9.00 | 11.00 | 14.00 | .... |

## SAILORS' PALMS



No. 2—Hide Mounted..... per doz. $3.50

## SAIL NEEDLES



| Length | | 2 | 2½ | 3 | 3½ inch. |
|---|---|---|---|---|---|
| No. 2400 | per 100 | $0.40 | 0.55 | 0.75 | 0.95 |

## PACKING NEEDLES



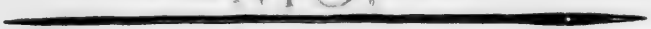
| Length | | 3 | 3½ | 4 | 5 | 6 inch. |
|---|---|---|---|---|---|---|
| No. 2402 | per gross | $1.00 | 1.05 | 1.15 | 1.40 | 1.75 |

## COLLAR NEEDLES



| Length | | 5 | 6 inch. |
|---|---|---|---|
| No. 2404 | per gross | $2.10 | 2.30 |

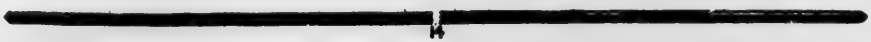
## UPHOLSTERERS' NEEDLES



DOUBLE POINTED

| Length | | 10 | 12 | 14 inch. |
|---|---|---|---|---|
| No. 2410 | per gross | $7.65 | 12.60 | 17.10 |

## STEEL KNITTING NEEDLES



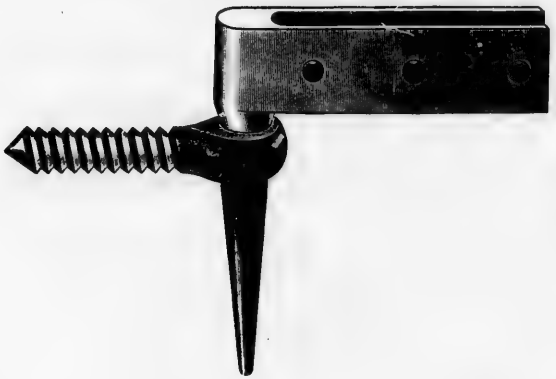
| Nos | | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|---|---|---|---|---|---|---|---|---|---|---|
| B. W. Gauge | | 13 | .... | 14 | .... | 15 | .... | 16 | .... | 17 |
| No. 2421—Tapered | per gross | $0.90 | 0.75 | 0.70 | 0.60 | 0.55 | 0.50 | 0.45 | 0.40 | 0.40 |

# GALVANIZED BOAT HOOKS



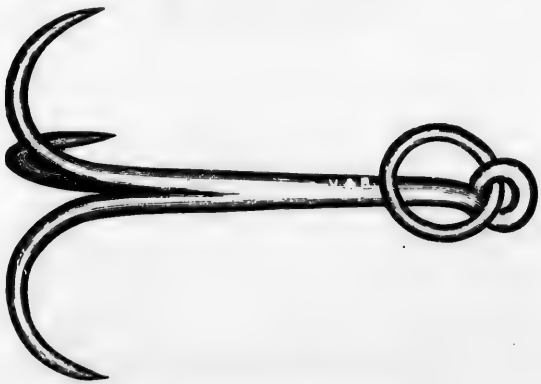
| | | |
|---|---|---|
| No. 352X1—For 1¼ inch Pole | per doz. | $4.85 |
| " 352X2— " 1½ " | " | 6.50 |

## SCREW RUDDER BRACES



| | | | | |
|---|---|---|---|---|
| Opening between Straps | ⅝ | ¾ | ⅞ | inch. |
| No. 290—Galvanized, per doz. | $3.25 | 3.80 | 4.50 | |

## GRAPPLING IRONS



### WROUGHT IRON, PAINTED

| Nos | 1 | 2 | 3 | 4 | 5 | |
|---|---|---|---|---|---|---|
| Size of Iron | ½ | ⅝ | ¾ | ⅞ | 1 | inch. |
| Each | $0.50 | 0.75 | 1.00 | 1.50 | 2.00 | |

# IRON STOCK ANCHORS

TESTED



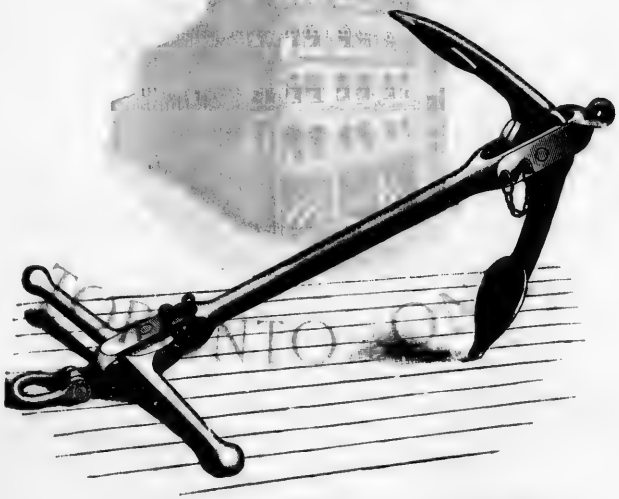
| Weights | 25 | 30 to 50 | 60 to 75 | 100 lbs. and larger |
|---|---|---|---|---|
| Price ..... per lb. | $0.10 | 0.08 | 0.07 | 0.06 |

## GALVANIZED STOCK ANCHORS

| Weights | 8 and 10 lbs. | 12 to 18 lbs. | 20 to 30 lbs. |
|---|---|---|---|
| Price ..... per lb. | $0.14 | 0.12 | 0.10 |

## DIRIGO FOLDING ANCHORS

GALVANIZED



OPEN



CLOSED

| Size | 4 | 6 | 10 | 16 | 20 | 26 | 30 lbs. |
|---|---|---|---|---|---|---|---|
| Price ..... each | $1.90 | 2.25 | 3.75 | 5.25 | 6.75 | 7.80 | 9.00 |

# CHAIN



### CLOSE LINK COIL CHAIN

| Size | 1/8 | 5/32 | 3/16 | 7/32 | 1/4 | 9/32 | 5/16 | 3/8 inch. |
|---|---|---|---|---|---|---|---|---|
| Per 100 lbs. $ | | | | | | | | |

### PROOF CABLE CHAIN

| Size | 7/16 | 1/2 | 9/16 | 5/8 | 3/4 | 7/8 | 1 | 1 1/8 | 1 1/4 | 1 1/2 inch. |
|---|---|---|---|---|---|---|---|---|---|---|
| Per 100 lbs $ | | | | | | | | | | |

### B. B. CRANE CHAIN

| Size | 3/8 | 7/16 | 1/2 | 9/16 | 5/8 | 3/4 | 7/8 inch. |
|---|---|---|---|---|---|---|---|
| Per 100 lbs $ | | | | | | | |

### ENGLISH COIL CHAIN

Weight of 100 feet and Proof Strain.

| Size | 1/8 | 5/32 | 3/16 | 7/32 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 9/16 | 5/8 | 3/4 | 7/8 | 1 | 1 1/8 | 1 1/4 in. diam. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Weighs | 30 | 38 | 44 | 48 | 52 | 98 | 148 | 198 | 260 | 315 | 413 | 500 | 700 | 950 | 1200 | 1500 lbs. |
| Proof Strain | | | | | 1/2 | | 1 1/2 | 2 1/2 | 3 1/2 | 4 1/2 | 6 | 9 | 13 | 17 | 21 | 27 tons. |

### AMERICAN B. B. CRANE CHAIN

Weight of 100 feet and Proof Strain.

| Size | 3/16 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 9/16 | 5/8 | 3/4 | 7/8 | 1 | 1 1/8 | 1 1/4 | 1 1/2 in. diam. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Weighs | 47 | 75 | 100 | 150 | 200 | 250 | 325 | 410 | 550 | 750 | 1000 | 1250 | 1500 | 2200 lbs. |
| Proof Test | 1000 | 1500 | 3000 | 3800 | 5650 | 8000 | 10000 | 12000 | 16000 | 20000 | 30120 | 36150 | 47000 | 72000 " |
| Tensile " | 2000 | 3000 | 5000 | 7500 | 9000 | 11500 | 16000 | 19000 | 29000 | 40000 | 50000 | 66000 | 80000 | 116000 " |

NOTE—Chain is, unless otherwise ordered, 1/32 in. over or larger than diameter given.

## REPAIRING LINKS



**No. 351**

Wrought, Open for Welding.

| Size | 3/16 x 1 3/4 | 1/4 x 2 | 5/16 x 2 1/4 | 3/8 x 2 1/2 |
|---|---|---|---|---|
| Per gross | $1.95 | 2.15 | 2.65 | 3.60 |

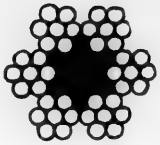


**No. 350**

Lloyd's, Japanned for Riveting.

| Size | 3/16 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 |
|---|---|---|---|---|---|---|---|---|
| Per dozen | $0.40 | 0.40 | 0.45 | 0.55 | 0.65 | 0.85 | 1.25 | 2.30 |

# WIRE ROPE



## ROUND WIRE ROPES

### GALVANIZED WIRE ROPE

**FOR SHIPS' RIGGING, DERRICK STAYS, ETC.**

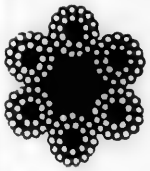
6 Strands, 7 Wires to the Strand; Hemp Centre.

| Diameter | ¼ | 5/16 | ⅜ | 7/16 | Circumference | 1½ | 1¾ | 2 | 2¼ | 2½ | 2¾ | 3 | 3¼ inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100 ft. weighs about | 8 | 14½ | 19 | 29 | | 34 | 42 | 59 | 75 | 92 | 113 | 133 | 158 lbs. |
| Price per lb. | $0.20 | 0.17 | 0.16½ | 0.16 | | 0.15 | 0.13 | 0.12 | 0.11 | 0.10½ | 0.10 | 0.10 | 0.09½ |

Galvanized Seizing Wire, in 1000 feet coils.....per lb. $....

### STEEL WIRE ROPE

**BEST CRUCIBLE CAST STEEL, FOR HOISTING, TRANSMISSION OF POWER, ETC.**



SECTION OF No. 2

**No. 2**
**SPECIALLY FLEXIBLE**
**For Cranes, Derricks, Etc.**
6 Strands, 24 Wires to the Strand; Hemp Centres.

**No. 3**
**FLEXIBLE**
**For Elevators and Hoists**
6 Strands, 19 Wires to the Strand; Hemp Centre.



SECTION OF No. 3

| Diameter | ¼ | 5/16 | ⅜ | 7/16 | ½ | ⅝ | ¾ | ⅞ | 1 inch. |
|---|---|---|---|---|---|---|---|---|---|
| No. 2 ....per foot | .... | .... | 0.13 | .... | 0.15 | 0.18 | 0.23 | .... | .... |
| " 3 .... " | $0.07 | 0.09½ | 0.10 | 0.11 | 0.12 | 0.16 | 0.18 | 0.26 | 0.33 |

**Approximate Weight and Strength of Crucible Cast Steel Wire Hoisting Ropes**

| Diameter | 5/16 | ⅜ | 7/16 | ½ | ⅝ | ¾ | ⅞ | 1 | 1⅛ | 1¼ | 1½ inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Circumference | 1 | 1¼ | 1⅜ | 1⅝ | 2 | 2⅜ | 2¾ | 3⅛ | 3½ | 4 | 4¾ inch. |
| No. 2—Weight per 100 feet | 17 | 21 | 29 | 39½ | 58 | 83 | 108 | 145 | 175 | 233 | 333 lbs. |
| " 3— " " | 17 | 23 | 27 | 42 | 70 | 94 | 125 | 160 | 204 | 266 | 366 " |
| " 2—Breaking Strain, Tons (2240 lbs.) | 2¾ | 4 | 6 | 7¾ | 12 | 16¾ | 22½ | 28 | 36 | 47 | 66 Tons. |
| " 3— " " " " | 4½ | 6 | 7½ | 10½ | 17 | 24 | 32½ | 41 | 53 | 69 | 94 " |
| Minimum Size of Sheave for No. 2 | 2 | 2 | 2 | 3 | 6 | 8 | 10 | 15 | 18 | 22 | 30 inch. |
| " " " " 3 | 3 | 3 | 4 | 6 | 8 | 12 | 16 | 21 | 24 | 33 | 43 " |

Take one-seventh of Breaking Strain for Safe Working Load.

**Approximate Weight and Strength of Manilla Rope.**

| Diameter | 3/16 | ¼ | 5/16 | ⅜ | 7/16 | ½ | 9/16 | ⅝ | ¾ | 13/16 | ⅞ | 1 | 1 1/16 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Circumference | ½ | ¾ | 1 | 1⅛ | 1¼ | 1½ | 1¾ | 2 | 2¼ | 2½ | 2¾ | 3 | 3¼ | " |
| Strength in lbs. (new) | 400 | 450 | 750 | 900 | 1250 | 1700 | 2250 | 3000 | 4000 | 5000 | 5800 | 7000 | 8000 | |
| Number of feet in a lb | 70 | 42 | 34 | 24 | 17 | 12 | 10 | 7½ | 6 | 5 | 4⅛ | 3⅜ | 3 | |

| Diameter | 1⅛ | 1¼ | 1 5/16 | 1⅜ | 1½ | 1⅝ | 1⅞ | 2 | 2⅛ | 2¼ | 2½ | 2⅝ | 3 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Circumference | 3½ | 3⅞ | 4 | 4¼ | 4⅝ | 5 | 5½ | 6 | 6½ | 7 | 7½ | 8 | 9 | " |
| Strength in lbs. (new) | 8200 | 11000 | 12000 | 13500 | 17000 | 19000 | 27000 | 29000 | 31500 | 37000 | 42000 | 48000 | 60000 | |
| Number of feet in a lb | 2⅜ | 2 | 1⅞ | 1½ | 1⅜ | 1 1/10 | 1 | 0.90 | 0.68 | 0.55 | 0.48 | 0.42 | 0.34 | |

1/16 to 1 1/16 inch, 160 fathoms in a coil; 1⅛ to 3 inch, 120 fathoms.

# ROPE



## SISAL

| | | | |
|---|---|---|---|
| Diameter $\frac{7}{16}$ inch and larger | Basis | $8.... | per lb. |
| " $\frac{3}{8}$ " | Advance | $\frac{1}{2}$ cent | " |
| " $\frac{1}{4}$ and $\frac{5}{16}$ inch | " | 1 " | " |
| " $\frac{3}{16}$ inch | " | 1½ " | " |
| Unoiled | " | ½ " | " |

## MANILLA

| | | | |
|---|---|---|---|
| Diameter $\frac{7}{16}$ inch and larger | Basis | $8.... | per lb. |
| " $\frac{3}{8}$ " | Advance | $\frac{1}{2}$ cent | " |
| " $\frac{1}{4}$ and $\frac{5}{16}$ inch | " | 1 " | " |
| " $\frac{3}{16}$ inch | " | 1½ " | " |
| Bolt and Point Rope | " | 1½ " | " |
| Tallow Laid Transmission Rope | " | 2 " | " |
| Tarred Rope | Less | ½ " | " |

For approximate weight and strength of Manilla Rope, see page 369.

## COTTON

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Diameter | ⅛ | 3/16 | ¼ | 5/16 | ⅜ | 7/16 | ½ | ⅝ | ¾ | inch. |
| Feet to the lb | 125 | 90 | 65 | 37 | 25 | 19 | 14 | 10 | 7 | |
| In Coils, about | 25 | 25 | 25 | 25 | 35 | 35 | 40 | 40 | 40 | lbs. |
| Per lb | $8.... | .... | .... | .... | .... | .... | .... | .... | .... | |

## CORDAGE

| | | | | | |
|---|---|---|---|---|---|
| Russia Sea Line | per lb. | $.... | Tarred Russia Hemp Rope | per lb. | $... |
| " Halyard | " | .... | " " | " | .... |
| Dry Tarred Lath Yarn | " | .... | " " | " | .... |
| Sisal Hay, Hide and Cheese Rope | " | .... | " " | " | .... |
| Manilla Marline | " | .... | " " | " | .... |

| | | | | | |
|---|---|---|---|---|---|
| Hambroline | " | .... | | | |
| House Line | " | .... | | | |
| Marline | " | .... | | | |
| Spun Yarn | " | .... | | | |

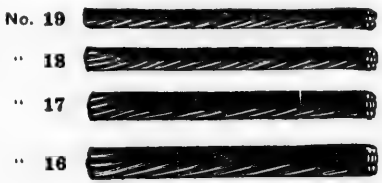
## CLOTHES LINES



### COTTON CLOTHES LINES

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Length | | 48 | 50 | 60 | 72 | 75 | 80 | 100 feet. |
| Cable | per doz. | $1.30 | .... | 1.65 | 2.00 | .... | 2.15 | 2.70 |
| Braided | " | .... | 2.00 | .... | .... | 3.00 | .... | 4 00 |

## GALVANIZED CLOTHES LINE WIRE



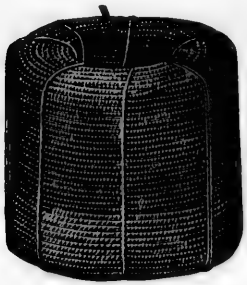

In coils of 50 or 100 feet.

| | | | | | |
|---|---|---|---|---|---|
| Nos. | | 16 | 17 | 18 | 19 |
| 7 Strands | per 1000 feet | $9.50 | 6.50 | 5.00 | 4.00 |
| 6 " Hollow | " | .... | 6.20 | 4.60 | 3.70 |

## BED CORDS

| | | | | | | |
|---|---|---|---|---|---|---|
| Length | | 48 | 60 | 72 | 100 | feet. |
| Sisal, 3 Threads | per doz. | $.... | ... | .... | .... | |
| " 6 " | " | .... | .... | .... | .... | |
| Cotton | " | ... | .... | . .. | .... | |

# SASH CORD



In 600 feet coils

## BRAIDED COTTON SASH CORD

| Nos. | | 6 | 7 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diameter | | 5/32 | 11/64 | 3/16 | 5/32 | 1/4 | 7/32 | 1/4 | 5/16 | 1/4 | inch. |
| Feet in a pound, about | | 66 | 55 | 44 | 30 | 21 | 16 | 12 | 10 | 7 | |
| A Quality, Silver Lake | per lb. | $0.55 | 0.55 | 0.55 | 0.55 | 0 55 | 0.60 | 0.60 | 0.60 | 0.60 | |
| B " " | " | 0.45 | 0.45 | 0.45 | 0.45 | .... | .... | .... | .... | .... | |
| Star " | " | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | .... | .... | .... | .... | |
| Hercules Quality | " | 0.30 | 0.30 | 0.30 | 0.30 | .... | .... | .... | .... | .... | |
| Baltic, Indian Hemp | " | 0.28 | 0.28 | 0.28 | 0.28 | .... | .... | .... | .... | .... | |



In 100 feet hanks.

| Nos | | 6 | 7 | 8 |
|---|---|---|---|---|
| A Quality, Silver Lake | per lb. | $0.55 | 0.55 | 0.55 |
| B " " | " | 0.45 | 0.45 | 0.45 |
| Star " | " | 0.40 | 0.40 | 0.40 |
| Hercules Quality | " | 0.30 | 0.30 | 0.30 |

## SASH CHAINS



500 feet on a reel.

| | | |
|---|---|---|
| No. 1—Hercules Metal, for Sashes not over 150 lbs | per 100 feet | $10.00 |
| " 2— " " " " 100 lbs | " | 8.00 |
| " 1—Polished Steel, " " 150 lbs | " | 4,20 |
| " 2— " " " " 100 lbs | " | 3.60 |
| Attachments for one Window of two Sashes | per set | 0.20 |

## TINNED WIRE SASH CORD

In 100 feet coils.

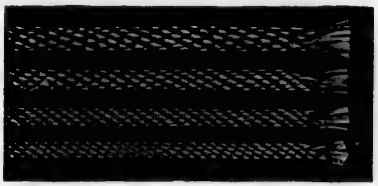
| | | |
|---|---|---|
| Tinned Steel Wire, 1/8 inch diameter | per 100 feet | $3.00 |
| " " " 5/32 " " | " | 3.25 |
| " " " 1/4 " " | " | 3.75 |

## STEEL RIBBON SASH LINE

### "HOOKMAN'S PATENT"

| | | |
|---|---|---|
| No. 1—For Sashes up to 40 lbs., Pulley not less than 1½ inch | per 100 feet | $ 5.30 |
| " 2— " " 75 " " " 2 " | " | 7.35 |
| " 3— " " 150 " " " 2¼ " | " | 10.00 |
| " 4— " over 150 " " " 3 " | " | 16.50 |

# AWNING AND CHALK LINES







## BRAIDED COTTON AWNING LINES

White or Drab.

| | | | | | |
|---|---|---|---|---|---|
| Nos. | 3½ | 4 | 4½ | 5 | |
| Length. | 48 | 48 | 48 | 100 | feet. |
| Per doz. hanks. | $2.25 | 3.00 | 3.75 | 11.25 | |

## COTTON CHALK LINES

20 foot Hanks, 12 Hanks in a bundle, 6 connected.

| | | | | | |
|---|---|---|---|---|---|
| Nos. | 0 | 1 | 2 | 3 | |
| Silver Lake Braided.. per gross | $9.00 | 9.75 | 10.50 | 11.25 | |
| Nos. | 12 | 15 | 18 | 24 | 30 |
| Cotton Chalk Lines....per gross | $1.85 | 2.30 | 2.75 | 3.40 | 3.85 |

## GARDEN LINES

No. 1—Cotton.....per doz. $....
" 2— " ..... " ....
" 3—Hemp..... " ....

## MASONS' LINES

No. 15—Cotton, 100 ft. Hanks..... per doz. $....
" 18— " 100 ft. " ..... " ....
" 28—Hemp, 100 ft. " ..... " ....

One dozen in a box.

## TWINE



| | | |
|---|---|---|
| Cotton Twine, 2-ply, in ¼ lb. balls in 5 lb. bags | per lb. | $0.22 |
| " " 4-ply, " " " | " | 0.30 |
| " Bag Twine, in ¼ lb. balls, 12 balls in a package | per package | 0.90 |
| No. 1—Magenta Counter Twine, in ¼ lb. balls, 12 balls in a package | " | 1.20 |
| " 12—Flax Stitching Twine | " | 2.38 |
| " 15— " Mattress " | " | 2.38 |
| " 20— " Tufting " | " | 1.50 |
| " 50— " " " | " | 1.80 |
| " 126—Indian Hemp Wrapping Twine | " | 0.78 |
| " 100—Jute Counter | " | 0.84 |
| " 108—Light Unfinished Jute Wrapping Twine, in ¼ lb. balls, 12 balls in a package | " | 0.72 |
| " 112 " " " " " " " " | " | 0.60 |
| " 135—Jute Sewing Twine | " | 0.60 |
| " 254—Russia Hemp Bag Twine, 2-ply | " | 0.78 |
| " 254— " " " 3-ply | " | 0.78 |
| " 644—Bleached Flax " | " | 0.96 |
| " 256—Russia Hemp Heavy Parcel Twine in 2 lb. balls | per lb. | 0.26 |
| " 115—Jute Seaming Cord in 2 lb. balls | " | 0.19 |
| Flax Sewing or Sail Twine, 6, 8, or 10-ply, in hanks about 1 lb. | " | 0.37 |

## BARBOUR'S STANDARD SHOE THREAD

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Nos. | 8 | 9 | 10 | 12 | 15 | 20 | 25 |
| Barbour's Standard.....per box | $0.78 | 0.86 | 0.87 | 0.92 | 1.02 | 1.08 | 1.20 |
| " "Harp" Brand..... " | 0.68 | 0.72 | 0.78 | 0.83 | 0.95 | 1.00 | 1.09 |

8 balls in a box, 3 boxes in a parcel.

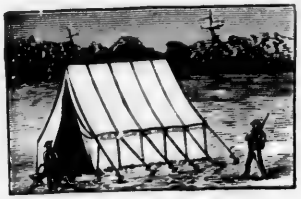
## COTTON SEINE TWINE

| | | |
|---|---|---|
| Soft Laid Seine or Hammock Twine, 9, 12, 16, 20, 24, 28, 36, 40 and 48 thread | per lb. | $0.35 |
| Hard Laid " " " 9, 12, 16, 20, 24, 28, 36, 40 and 48 thread | " | 0.35 |

## ST. PETER'S RUSSIA HEMP COD LINES

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Threads | 6 | 9 | 12 | 15 | 18 | 21 | 24 |
| 150 feet Hard Laid.....per doz. | $2.45 | 3.25 | 3.80 | 4.25 | 5.00 | 5 85 | 6.75 |

# TENTS



WALL TENTS



"A" OR WEDGE TENTS

| WALL TENTS | | | | | "A" OR WEDGE TENTS | | | |
|---|---|---|---|---|---|---|---|---|
| Length and Width. | Height of Pole. | Height of Wall. | Price Without Poles or Stakes. | | Length and Width. | Height. | Price Without Poles or Stakes. | |
| | | | 8-oz. DUCK | 10-oz. DUCK | | | 8-oz. DUCK | 10-oz. DUCK |
| 7 x 7 feet | 7 feet | 2 feet | $ 8.75 | $10.00 | 7 x 7 feet | 7 feet | $ 7.80 | $ 8.75 |
| 7 x 9½ " | 7 " | 2 " | 9.75 | 11.00 | 7 x 9 " | 7 " | 8.75 | 9.90 |
| 8 x 10 " | 7½ " | 2 " | 11.75 | 13.40 | 9 x 9 " | 8 " | 11.40 | 12.90 |
| 9 x 12 " | 7½ " | 2 " | 13.75 | 15.65 | 9 x 12 " | 8 " | 13.00 | 15.00 |
| 10 x 12 " | 8 " | 2½ " | 16.55 | 18.75 | 9 x 14 " | 8 " | 15.00 | 16.90 |
| 10 x 14 " | 8 " | 2½ " | 18.00 | 20.50 | | | | |

## COTTON DUCK

| Nos | | 6 | 8 | 10 | 12 |
|---|---|---|---|---|---|
| Ounces per square yard | | 21¼ | 18 | 14½ | 11½ |
| 22 inch wide | per yard | $0.25 | 0.23 | 0.20 | 0.18 |
| 28 " " | " | 0.29 | 0.27 | 0.23 | 0.20 |
| 30 " " | " | 0.31 | 0.28 | 0.24 | 0.20 |
| 32 " " | " | 0.33 | 0.30 | 0.26 | 0.21 |
| 36 " " | " | 0.38 | 0.34 | 0.29 | 0.24 |
| 40 " " | " | 0.42 | 0.38 | 0.32 | 0.26 |
| 48 " " | " | 0.50 | 0.45 | 0.38 | 0.32 |
| 60 " " | " | 0.62 | 0.57 | 0.48 | 0.40 |
| 72 " " | " | 0.75 | 0.68 | 0.57 | 0.47 |

Other widths and numbers can be supplied on short notice.

## LIFE BUOYS



No. 1—Small Yacht size.....each $4.50
" 2—Life Buoys ..... " 5.00

## LIFE PRESERVERS



No. 4—Cork Life Preservers .....each $1.50

## WOOLSEY'S COPPER BEST PAINT

The Best Covering now in use for Bottoms of Wooden Vessels.

In gallon tins .....per gallon $3.00

# CHALK







**SCHOOL CRAYONS**

White, per gross ..... $0.13½

**CARPENTERS' CHALK**

| | WHITE | RED | BLUE |
|---|---|---|---|
| Per gross ..... | $0.80 | 0.95 | 1.10 |

Lump Chalk, White ..... per 100 lbs. $3.00

## LUMBER PENCILS




| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| No. | **361**— | Dixon's, | Black | Lead, | Hexagon, | 4½ x ½ inch, | Japanned ..... | per gross | $10.20 |
| " | **520**— | " | Red | " | " | 4½ x ½ " | Paper Covered ..... | " | 16.60 |
| " | **521**— | " | Blue | " | " | 4½ x ½ " | " " ..... | " | 16.60 |
| | ——— | Ross', | Black | " | " | 4½ x ½ " | Japanned ..... | " | 9.35 |
| " | **232**— | Boker's, | Black | " | " | 4½ x ½ " | " ..... | " | 5.10 |
| " | **235**— | " | Blue | " | " | 4½ x ½ " | " ..... | " | 5.30 |
| " | **236**— | " | Red | " | " | 4½ x ½ " | " ..... | " | 5.10 |
| " | **7022**— | " | Blue | " | Round, | 5 x 1 " | " ..... | " | 16.15 |

One dozen in a box.

## PENCIL HOLDERS




Adapted to Lumber Pencils of standard makes.

Pencil Holders only, Nickel-Plated, without handle ..... per doz. $15.00

## METAL WORKERS' CRAYONS




**No. 524**—Sawed out of solid soapstone, flat shape, chisel point. Packed in ½ gross boxes ..... per gross $6.25

# CARPENTERS' LEAD PENCILS




No. **430**—Eagle, Whitewood, Oval, with Rule Measure in Colored Stamp, Length 7 inches.....per gross $2.45
" **507**—Faber, " " Colored Stamp, Length 7 inches..... " 2.45
" **7756**— " " " " " ..... " 1.50




No. **435**—Eagle, Cedar, Polished, Oval, Plain Stamp, Length 7 inches.....per gross 3.00
" **527**—Faber, " " " " 7 " ..... " 3.00




No. **446**—Eagle, Best Cedar, Oval, Gilt Stamp.....per gross 4.70




No. **468**—Eagle, Best Cedar, Flat Octagon, Gilt Stamp, Length 7 inches.....per gross 5.35

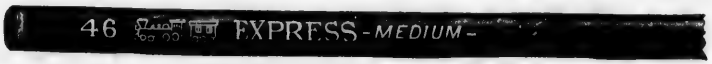
Half gross in a box.

# LEAD PENCILS




No. **59**—Eagle, Plain Round, Cedar, Natural, No. 2 ..... per gross $1.35
" **200**—Faber " " " " " 2 ..... " 1.20
" **E**—Eagle " " " " ..... " 0.75
" **1000**—Faber " " " " ..... " 0.75

**One gross in a box.**




No **46**—Eagle, Black Medium, Round, with Gilt Stamp ..... per gross 2.20
" **52**— " Natural " " " " " " ..... " 2.20
" **2300**—Faber " " " " " " ..... " 1.90
" **2402**— " Black " " " " " ..... " 2.00

**One gross in a box.**




No. **142**—Eagle Hexagon, Silk Finish, Stained Wood, No. 2 ..... per gross 4.15
" **143**— " " " " " " " 3 ..... " 4.15
" **101**— " Round " " " " " 1 ..... " 3.50
" **102**— " " " " " " " 2 ..... " 3.50
" **121**— " " Rosewood " " " " 1 ..... " 3.50

**Half gross in a box.**




No. **140**—Eagle, Round, Cedar, Highly Polished, No. 2, with Patent Inserted Rubber Head ..... per gross 1.50




No. **222½**—Eagle, Round, Finest Finish, Gold Stamp, Specially Graded, No. 2½ ..... per gross 4.75
" **223**— " " " " " " Hard and Firm, " 3 ..... " 4.75
" **224**— " " " " " " Extra Hard, " 4 ..... " 4.75
" **460H**—Faber " " " Silver " Specially Graded, ..... " 4.90
" **460HH**— " " " " " " Hard and Firm, ..... " 4.90
" **460HHHH**— " " " " " " Extra Hard, ..... " 4.90

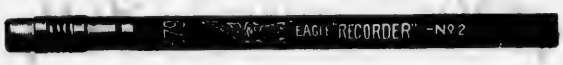
**Nos. 222½ to 224, one dozen in patent packing boxes. Nos. 460, ¼ gross in a box.**

# LEAD PENCILS




No. **321**—Eagle, Round, Silk Finish, Gold Stamp, Erasers encased in Nickel Tips, No. 2.....per gross $5.25
" **322**— " " " " " " " " " " 3..... " 5.25
" **323**— " " Rosewood Finish, " " " " " " 2..... " 5.25

**Half gross in a box.**



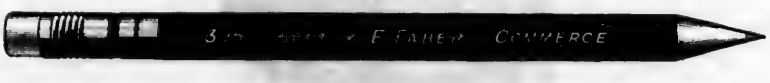

No. **677**—Eagle, Recorder, Round, Natural Finish, Erasers encased in Nickel Tips, No. 2.....per gross 5.25

**Half gross in a box.**




No. **547**—Eagle, Round, Rosewood Polish, with Patented Clasp Eraser, No. 2.....per gross 3.60
" **2532**—Faber, " " " " " " " " 2..... " 3.60

**Half gross in a box.**




No. **395N**—Faber, Round, Rosewood Finish, Erasers encased in Nickel Tips.....per gross 4.75

**Half gross in a box.**




No. **6309**—Faber, Hexagon, Yellow Polish, Gold Stamp, 6B Thick Lead.....per gross 9.00

**One dozen in a box; 6 boxes in a carton.**

## ASSORTMENTS OF PENCILS

No. **128**—Eagle Assortment, box contains 6 dozen assorted styles of Rubber End Pencils for general purposes.....per box 2.95

## COLORED PENCILS

No. **665**—Faber Blue, in Whitewood, Round, Large Lead.....per gross $4.80
" **666**— " Red, " " " " " " " " " " " " 5.10
" **544**— " Blue, Lumberman's, " Extra Fine Polish, Gold Stamp, Extra Large Lead... " 15.20
" **546**— " Red, " " " " " " " " " " " " 15.20
" **548**— " Green, " " " " " " " " " " " " 15.20

**Nos. 665 and 666, half gross in a box; Nos. 544 to 548, quarter gross.**

# GLASS CUTTERS



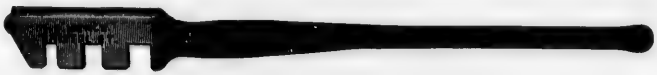
No. 3—Combined Glass Cutter and Putty Knife ..... per doz. $0.85




No. 4—Combined Glass Cutter and Putty Knife ..... per doz. 0.95




No. 7—Glass Cutter, Iron Handle ..... per doz. 0.85



No. 1—Glass Cutter, with Hardened Steel Pin ..... per doz. 1.75



No. XXX—Glass Cutter, Rosewood Handle ..... per doz. 1.85
" XX — " " Iron Handle (similar to No. 1) ..... " 1.55

One dozen in a box.

## GLAZIERS' DIAMONDS

### SHARRATT & NEWTH



| Nos. | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| Crown Diamond, Plain ..... each | $5.25 | 6.40 | 8.00 | .... |
| " " with Rack ..... " | 5.95 | 7.20 | 8.80 | .... |
| New Patent, with Rack ..... " | 5.60 | 6.80 | 8.00 | 10.00 |

These Diamonds are capable of being reset at small cost. Are **Not Returnable** except for resetting.

# WINDOW GLASS

## NUMBER OF PANES IN A BOX AND LIST PRICE PER PANE

| Size. | No of Panes. 50 ft | No of Panes. 100 ft | Price per Pane. Star. | Price per Pane. Double Diamond Star. | Size. | Panes in 100 ft. | Price per Pane. Star. | Price per Pane. Double Diamond Star. | Size. | Panes in 100 ft. | Price per Pane. Star | Price per Pane. Double Diamond Star. | Size. | Panes in 100 ft. | Price per Pane. Star. | Price per Pane. Double Diamond Star. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7 x 9 | 115 | 229 | $0.03 | $0.04 | 16 x 50 | 18 | $0.47 | $0.70 | 26 x 34 | 16 | $0.49 | $0.73 | 36 x 52 | 8 | $1.58 | $2.39 |
| 8 x 10 | 90 | 180 | 0.04 | 0.05 | | 54 | 17 | 0.65 | 0.74 | | 38 | 15 | 0.56 | 0.80 | | 54 | 7 | 1.80 | 2 70 |
| 9 x 12 | 67 | 133 | 0.04 | 0.06 | 18 x 20 | 40 | 0 17 | 0.23 | | | 40 | 14 | 0.60 | 0.89 | | 58 | 7 | ..... | 3.37 |
| 10 x 12 | 60 | 120 | 0.05 | 0.07 | | 22 | 36 | 0.18 | 0.26 | | 44 | 13 | 0.65 | 0.94 | | 59 | 7 | ..... | 3 37 |
| 14 | 32 | 103 | 0.06 | 0.08 | | 24 | 33 | 0.22 | 0.32 | | 48 | 12 | 0.78 | 1.15 | | 60 | 7 | ..... | 3.90 |
| 16 | 45 | 90 | 0.07 | 0.09 | | 26 | 31 | 0.23 | 0.34 | | 52 | 11 | 0.85 | 1.28 | | 64 | 6 | ..... | 4.47 |
| 18 | 40 | 80 | 0.08 | 0.11 | | 28 | 29 | 0.25 | 0.36 | | 54 | 10 | 1.10 | 1.50 | | 69 | 6 | ..... | 5.33 |
| 20 | 36 | 72 | 0.09 | 0 12 | | 30 | 27 | 0.27 | 0.39 | | 58 | 10 | 1.15 | 1.57 | | 72 | 6 | ..... | 6.50 |
| 22 | 33 | 65 | 0.10 | 0.13 | | 32 | 25 | 0.29 | 0.42 | | 59 | 9 | 1.22 | 1.82 | | 74 | 5 | ..... | 7.80 |
| 24 | 30 | 60 | 0.11 | 0.14 | | 34 | 24 | 0.33 | 0.48 | | 60 | 9 | 1.40 | 2.08 | | 79 | 5 | ..... | 9.40 |
| 26 | 28 | 55 | 0.12 | 0.15 | | 36 | 22 | 0.35 | 0.53 | | 64 | 9 | ..... | 2.08 | 38 x 42 | 9 | 1.04 | 1.60 |
| 12 x 14 | 43 | 86 | 0.08 | 0.10 | | 38 | 21 | 0 37 | 0.55 | 28 x 30 | 17 | 0.46 | 0.68 | | 44 | 9 | 1.22 | 1.77 |
| 16 | 38 | 75 | 0.09 | 0.11 | | 40 | 20 | 0.39 | 0.55 | | 62 | 16 | 0.49 | 0.73 | | 47 | 8 | 1.38 | 2.05 |
| 18 | 34 | 67 | 0.10 | 0.13 | | 42 | 19 | 0.41 | 0.56 | | 34 | 15 | 0.56 | 0.80 | | 50 | 8 | 1.58 | 2.39 |
| 20 | 30 | 60 | 0.11 | 0.14 | | 44 | 18 | 0.47 | 0.70 | | 38 | 14 | 0.60 | 0.89 | | 52 | 7 | 1.80 | 2.70 |
| 22 | 27 | 55 | 0.12 | 0.16 | | 48 | 17 | 0.49 | 0.74 | | 40 | 13 | 0.65 | 0.94 | | 54 | 7 | ..... | 3 27 |
| 24 | 25 | 50 | 0.13 | 0.17 | | 50 | 16 | 0.52 | 0 77 | | 42 | 12 | 0.70 | 1.07 | | 57 | 7 | ..... | 3 27 |
| 26 | 23 | 46 | 0.14 | 0.19 | | 52 | 15 | 0.56 | 0.85 | | 44 | 12 | 0.78 | 1.15 | | 58 | 7 | ..... | 3.90 |
| 28 | 22 | 43 | 0.15 | 0.20 | | 54 | 15 | 0.73 | 1.09 | | 48 | 11 | 0.85 | 1.28 | | 62 | 6 | ..... | 4.47 |
| 30 | .... | 40 | 0.18 | 0.26 | | 56 | 14 | 0.79 | 1.17 | | 52 | 10 | 0.94 | 1.46 | | 67 | 6 | ..... | 5.27 |
| 32 | .... | 38 | 0 19 | 0.27 | | 58 | 14 | ..... | 1.17 | | 54 | 10 | 1.15 | 1.57 | | 72 | 5 | ..... | 7.71 |
| 34 | .... | 35 | 0.21 | 0.30 | 20 x 22 | 33 | 0.23 | 0.32 | | 57 | 9 | 1.22 | 1.82 | 40 x 42 | 9 | 1.22 | 1.77 |
| 36 | .... | 32 | 0.22 | 0.32 | | 24 | 30 | 0.24 | 0.34 | | 60 | 9 | 1.40 | 2.08 | | 45 | 8 | 1.38 | 2.05 |
| 38 | .... | 32 | 0.23 | 0.33 | | 26 | 28 | 0.26 | 0.37 | | 62 | 8 | ..... | 2.45 | | 48 | 8 | 1.58 | 2.45 |
| 40 | .... | 30 | ..... | 0.39 | | 28 | 26 | 0.28 | 0.40 | | 67 | 8 | ..... | 2.95 | | 50 | 7 | 1.80 | 2.70 |
| 42 | .... | 29 | ..... | 0.40 | | 30 | 24 | 0.30 | 0.43 | | 72 | 7 | ..... | 3.90 | | 54 | 7 | ..... | 3.27 |
| 14 x 16 | 32 | 64 | 0.10 | 0.13 | | 32 | 23 | 0.34 | 0.50 | 30 x 32 | 15 | 0.56 | 0.80 | | 55 | 7 | ..... | 3.27 |
| 18 | 29 | 57 | 0.12 | 0.15 | | 34 | 21 | 0.37 | 0.55 | | 34 | 14 | 0.60 | 0.89 | | 60 | 6 | ..... | 4.47 |
| 20 | 26 | 51 | 0.13 | 0.17 | | 36 | 20 | 0.39 | 0.55 | | 38 | 13 | 0.65 | 0 94 | | 65 | 6 | ..... | 5.27 |
| 22 | 24 | 47 | 0.14 | 0.18 | | 38 | 19 | 0.41 | 0.58 | | 40 | 12 | 0.70 | 1.07 | | 70 | 5 | ..... | 7.71 |
| 24 | 22 | 43 | 0.15 | 0.20 | | 40 | 18 | 0.43 | 0.62 | | 44 | 11 | 0.85 | 1.28 | | 73 | 5 | ..... | 9.22 |
| 26 | 20 | 40 | 0.17 | 0.22 | | 42 | 17 | 0.49 | 0.74 | | 50 | 10 | 0.94 | 1.40 | | 75 | 5 | ..... | 9.22 |
| 28 | .... | 37 | 0.19 | 0.28 | | 46 | 16 | 0.52 | 0.77 | | 55 | 9 | 1.22 | 1.77 | 42 x 48 | 7 | ..... | 2.86 |
| 30 | .... | 34 | 0.22 | 0.31 | | 48 | 15 | 0.56 | 0.85 | | 56 | 9 | 1.40 | 2 08 | | 52 | 7 | ..... | 3.62 |
| 32 | .... | 32 | 0 23 | 0.33 | | 50 | 14 | 0.60 | 0.89 | | 60 | 8 | 1.58 | 2.39 | | 58 | 6 | ..... | 4.90 |
| 34 | .... | 30 | 0.24 | 0 34 | | 52 | 14 | 0.67 | 1.04 | | 64 | 8 | ..... | 2.95 | | 62 | 6 | ..... | 5.71 |
| 36 | .... | 29 | 0.26 | 0.35 | | 56 | 13 | 0.85 | 1.26 | | 68 | 7 | ..... | 3.90 | | 63 | 5 | ..... | 6 66 |
| 38 | .... | 27 | 0.28 | 0.40 | | 60 | 12 | 0.92 | 1.37 | | 70 | 7 | ..... | 3.90 | | 68 | 5 | ..... | 8 46 |
| 40 | .... | 26 | 0 29 | 0.43 | 22 x 24 | 27 | 0.27 | 0.39 | | 73 | 7 | ..... | 4.57 | | 73 | 5 | ..... | 9.98 |
| 42 | .... | 24 | 0.32 | 0.46 | | 26 | 25 | 0.29 | 0.42 | 32 x 34 | 13 | 0.65 | 0.94 | 44 x 46 | 7 | ..... | 2.86 |
| 44 | .... | 23 | 0.34 | 0.48 | | 28 | 23 | 0.31 | 0.45 | | 58 | 12 | 0.70 | 1.07 | | 50 | 7 | ..... | 3.62 |
| 46 | .... | 22 | 0.35 | 0.50 | | 30 | 22 | 0.35 | 0.53 | | 42 | 11 | 0.85 | 1.28 | | 56 | 6 | ..... | 4.90 |
| 50 | .... | 21 | 0.38 | 0.60 | | 32 | 20 | 0.39 | 0.55 | | 46 | 10 | 0.94 | 1.40 | | 59 | 6 | ..... | 5.71 |
| 52 | .... | 20 | ..... | 0.64 | | 34 | 19 | 0.41 | 0.58 | | 48 | 9 | 1.04 | 1.60 | | 61 | 5 | ..... | 6.66 |
| 15 x 28 | .... | 34 | 0.22 | 0.31 | | 36 | 18 | 0.43 | 0.62 | | 52 | 9 | 1.22 | 1.77 | | 65 | 5 | ..... | 8.46 |
| 30 | .... | 32 | 0.23 | 0.33 | | 38 | 17 | 0.46 | 0.68 | | 53 | 8 | 1.38 | 2.05 | | 66 | 5 | ..... | 8.46 |
| 32 | .... | 30 | 0.24 | 0.34 | | 42 | 16 | 0.52 | 0.77 | | 56 | 8 | 1.58 | 2.39 | | 71 | 5 | ..... | 9.98 |
| 34 | .... | 28 | 0.26 | 0.36 | | 44 | 15 | 0 56 | 0.80 | | 58 | 8 | 1.58 | 2 39 | 45 x 60 | 5 | ..... | 6 66 |
| 36 | .... | 27 | 0.29 | 0.40 | | 48 | 14 | 0.60 | 0.89 | | 60 | 8 | ..... | 2.89 | | 65 | 5 | ..... | 8.46 |
| 38 | .... | 25 | 0.31 | 0.46 | | 52 | 13 | 0.72 | 1.10 | | 63 | 7 | ..... | 3.37 | | 70 | 5 | ..... | 9.98 |
| 40 | .... | 24 | 0.32 | 0.46 | | 56 | 12 | 0.92 | 1.37 | | 68 | 7 | ..... | 3.90 | 46 x 54 | 6 | ..... | 5.13 |
| 42 | .... | 23 | 0.34 | 0.48 | | 60 | 11 | 1.00 | 1.49 | | 75 | 6 | ..... | 5.33 | | 56 | 6 | ..... | 5 71 |
| 44 | .... | 22 | 0.35 | 0.50 | | 62 | 11 | ..... | 1.49 | 34 x 36 | 12 | 0.70 | 1.07 | | 59 | 5 | ..... | 6.66 |
| 46 | .... | 21 | 0.40 | 0.60 | 24 x 26 | 23 | 0.31 | 0.45 | | 40 | 11 | 0.85 | 1.28 | | 62 | 5 | ..... | 8.46 |
| 48 | .... | 20 | 0.42 | 0.64 | | 28 | 22 | 0.35 | 0.53 | | 44 | 10 | 0.94 | 1.40 | | 64 | 5 | ..... | 8.46 |
| 50 | .... | 19 | ..... | 0.67 | | 30 | 20 | 0.39 | 0.55 | | 46 | 9 | 1.04 | 1.60 | | 69 | 5 | ..... | 9.98 |
| 52 | .... | 18 | ..... | 0.71 | | 32 | 19 | 0.41 | 0.58 | | 48 | 9 | 1.22 | 1.77 | 47 x 53 | 6 | ..... | 5.13 |
| 16 x 18 | 25 | 50 | 0.13 | 0.18 | | 34 | 18 | 0.43 | 0.62 | | 51 | 8 | 1 38 | 2.05 | | 58 | 5 | ..... | 5.71 |
| 20 | 23 | 45 | 0.14 | 0.20 | | 36 | 17 | 0.46 | 0.68 | | 54 | 8 | 1.58 | 2.39 | | 63 | 5 | ..... | 8.46 |
| 22 | 21 | 41 | 0.16 | 0.22 | | 38 | 16 | 0.52 | 0.77 | | 56 | 8 | 1.80 | 2.70 | | 68 | 5 | ..... | 9.98 |
| 24 | 19 | 38 | 0.17 | 0.24 | | 40 | 15 | 0 56 | 0.80 | | 60 | 7 | ..... | 3.37 | 48 x 52 | 6 | ..... | 4.90 |
| 26 | .... | 35 | 0.21 | 0.30 | | 44 | 14 | 0.60 | 0.89 | | 61 | 7 | ..... | 3.37 | | 54 | 6 | ..... | 5.71 |
| 28 | .... | 32 | 0.23 | 0.31 | | 46 | 13 | 0.65 | 0.94 | | 64 | 7 | ..... | 3.90 | | 57 | 5 | ..... | 6.66 |
| 30 | .... | 30 | 0.24 | 0.33 | | 52 | 12 | 0.78 | 1.15 | | 66 | 6 | ..... | 4.47 | | 60 | 5 | ..... | 8.46 |
| 32 | .... | 28 | 0.26 | 0.35 | | 56 | 11 | 1.00 | 1.40 | | 71 | 6 | ..... | 5.33 | | 62 | 5 | ..... | 8.46 |
| 34 | .... | 26 | 0.28 | 0.38 | | 60 | 10 | 1.00 | 1.57 | | 76 | 6 | ..... | 6.50 | | 66 | 5 | ..... | 9.98 |
| 36 | .... | 25 | 0.31 | 0.43 | | 63 | 10 | ..... | 1.90 | 35 x 60 | 7 | ..... | 3.37 | 50 x 52 | 6 | ..... | 5.71 |
| 38 | .... | 24 | 0.33 | 0.45 | | 66 | 9 | ..... | 2.08 | | 70 | 6 | ..... | 5.27 | | 55 | 5 | ..... | 6.66 |
| 40 | .... | 23 | 0.34 | 0.48 | 25 x 60 | 10 | 1.00 | 1.57 | 36 x 38 | 11 | 0.85 | 1.28 | | 60 | 5 | ..... | 8.46 |
| 42 | .... | 21 | 0.37 | 0.51 | | 70 | 9 | ..... | 2 95 | | 42 | 10 | 0.94 | 1.40 | | 63 | 5 | ..... | 9.98 |
| 44 | .... | 20 | 0.39 | 0.55 | 26 x 28 | 20 | 0 39 | 0.55 | | 44 | 9 | 1.04 | 1.60 | 52 x 58 | 5 | ..... | 8.46 |
| 46 | .... | 20 | 0.42 | 0.63 | | 30 | 18 | 0.43 | 0.62 | | 46 | 9 | 1.22 | 1.77 | | 61 | 5 | ..... | 9.98 |
| 48 | .... | 19 | 0.44 | 0.66 | | 32 | 17 | 0.46 | 0.68 | | 49 | 8 | 1.38 | 2.05 | 54 x 59 | 5 | ..... | 9.98 |

# WINDOW GLASS

Stocked in 50 feet boxes, from 16 to 40 united inches, and in 100 feet cases, from 16 to 70 united inches.

| Sizes | 16 to 25 | 26 to 40 | 41 to 50 | 51 to 60 | 61 to 70 inch. |
|---|---|---|---|---|---|
| Price 50 ft. boxes | $.... | .... | .... | .... | .... |
| " 100 ft. cases | .... | .... | .... | .... | .... |

For number of panes in a box and list price per pane, see page 379.

## PUTTY

Pure Bladder and Bulk Putty, made from best Grey's Chalk and Pure Linseed Oil.

In barrels .... per lb. $....
" bladders .... " ....
" tins, 12½ and 25 lbs. each .... " ....

Tins packed in cases containing 100 lbs.

## WHITE LEAD

| | PURE | EXTRA GEM | STANDARD | No. 1 |
|---|---|---|---|---|
| Per 100 lbs | $.... | .... | .... | .... |

In 25 lb. irons.

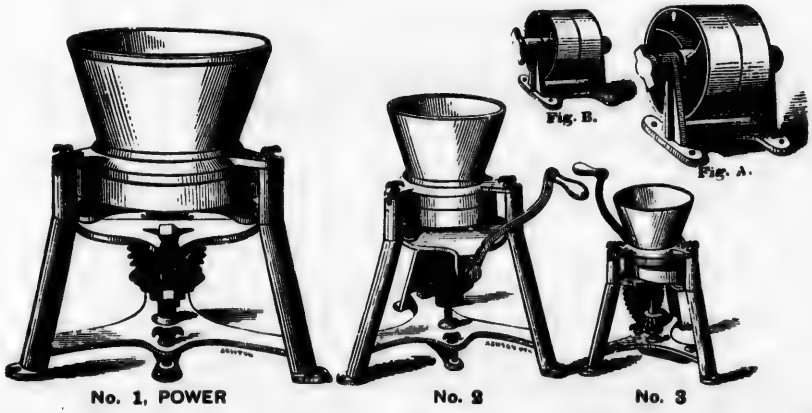
## DRY LEAD

Red Lead, Dry, in 100 lb. Kegs .... per lb. $....
White " " " " .... " ....

## LAMP BLACK

| ORDINARY | | GERMANTOWN | |
|---|---|---|---|
| ½ lb. packages | per lb. $.... | ½ lb. packages | per lb. $.... |
| 1 " " | " .... | 1 " " | " .... |

## HARRIS' IMPROVED PAINT MILLS




No. 1, POWER  No. 2  No. 3

| | | | |
|---|---|---|---|
| No. 1—Hand or Power Mill, Hopper 8 in. high, 14 in. across top, holds 3 gallons, weight 118 lbs. | each | $28.00 |
| " 2—Hand Mill " 6 " " 8 " " " " 1 " " 30 " .... | " | 10.00 |
| " 3— " " " 5 " " 7 " " " " ½ " " 21 " .... | " | 8.00 |
| " 4— " " " 4 " " 5 " " " " ¼ quart, " 15 " .... | " | 7.00 |
| " A—Pulley for No. 1 Power Mill, Pulley 12 in. diameter, 5 in. face, weight 84 lbs. | " | 15.00 |
| " B— " suitable for driving the No. 2 Mill | " | 8.00 |

The No. 1 requires about ½ horse power and has a capacity of about 300 lbs. per day. The pulley should make revolutions per minute, No. 2 about 50 revolutions per minute. No. 1 is supplied with extra handle for about 100 hand use.

# BUILDING PAPER




In rolls of 400 square feet

| | | |
|---|---|---|
| No. 20—Dry Building Paper or Straw Board, for lining buildings | per roll | $0.56 |
| " 21—Dry Fibre Building Paper, No. 2 | " | 0.60 |
| " 22—Ideal, Dry Fibre Building Paper, | " | 1.10 |
| " 23—O.K. No. 1, Building Paper (corded) | " | 1.25 |
| " 24—O.K. No. 2, " " " | " | 1.20 |
| " 25—Blue, Rosin Sized, No. 1 Building Paper, | " | 0.85 |
| " 26—Blue, Rosin Sized, No. 2, | " | 0.70 |
| " 27—Tarred Straw Board (not suitable for roofing) | " | 0.70 |
| " 28—Tarred Fibre, No. 1 | " | 1.00 |
| " 29—Tarred Fibre, No. 2 | " | 0.75 |

No. 30—Best Tarred Pure Wool Felt, for roofing, in 50 to 60 lb. rolls ..... per 100 lbs. $2.70

## CERITE WATERPROOF SHEATHING

No. 31—Cerite Waterproof Sheathing, in rolls 29 inches wide, 800 square feet each ..... per roll $2.00

The waterproof composition is forced through the paper, filling up the pores, forming a coating on each side, making it perfectly **Wind-proof** and **Water-proof**. It is specially adapted for use under metal roofing and siding, there being no injurious chemicals used.

## ASBESTOS BUILDING FELT

36 inches wide, about 8 lb. to the 100 square feet.

No. 32—Asbestos Building Felt, in rolls about 85 lbs. ..... per lb. $0.10

For fire-proof construction several thicknesses should be used; can be used also for covering furnace pipes, fire-heated surfaces, etc.

## CARPET FELT

"Gore Brand" Moth Proof Elastic Carpet Felt, 16 oz. ..... per 100 lbs. $3.75

## COAL TAR AND PITCH

| | | |
|---|---|---|
| Refined Coal Tar in barrels, 40 gals. | per barrel | $8.00 |
| Pure Coal Tar " 40 " | " | 7.00 |
| XXX Refined Coal Tar in quart tins | per doz. | 1.80 |
| Roofing Pitch, made from pure Coal Tar, 275 lbs. | per barrel | 4.50 |
| Pine Pitch | " | 6.00 |

## PINE TAR

In patent pint packages ..... per doz. 1.30

## ROSIN

Amber Rosin, G quality ..... per 100 lbs. ....

## BEESWAX

Virgin, Pure, in cakes ..... per lb. ....

# ROLL PAPER CUTTERS



Single or in combination.

| Sizes | 12 | 15 | 18 | 20 | 24 | 30 inch. |
|---|---|---|---|---|---|---|
| For Single Cutter | $2.25 | 2.25 | 2.25 | 2.25 | 3.00 | 3.75 each. |

Combination Cutters can be supplied, combining any of the above sizes, at prices given.

## ROLL PAPER

Diameter of Rolls, 8 inches.

### BROWN

| Widths of Rolls | 12 | 15 | 18 | 20 | 24 | 30 inch. |
|---|---|---|---|---|---|---|
| No. 1—Brown, basis of weight, 24 x 36 inches, 100 lbs | | | | price per lb. | | $.... |
| " 2— " " " " " " " " | | | | | " | .... |

### MANILLA

| Widths of Rolls | 12 | 15 | 18 | 20 | 24 | 30 inch. |
|---|---|---|---|---|---|---|
| Best Manilla, basis of weight, 24 x 36 inches, 45 lbs | | | | price per lb. | | $.... |
| " " " " " " " " 58 " | | | | | " | .... |

## WRAPPING PAPERS

### No 1, BROWN

| Sizes | 18 x 24 | 22 x 32 | 24 x 36 | 30 x 40 | 34 x 48 | 40 x 50 | 44 x 60 |
|---|---|---|---|---|---|---|---|
| Weights | 30 | 60 | 80 | 100 | 150 | 200 | 300 lbs. |
| Price per lb. | $.... | .... | .... | .... | .... | .... | .... |

### No. 2, BROWN

| Sizes | 18 x 24 | 22 x 32 | 24 x 36 | 30 x 40 | 34 x 48 | 44 x 60 |
|---|---|---|---|---|---|---|
| Weights | 40 | 60 | 80 | 100 | 150 | 200 lbs. |
| Price per lb. | .... | .... | .... | .... | .... | .... |

### BUTCHERS' BROWN

| Sizes | 18 x 24 | 22 x 32 | 24 x 36 | 30 x 40 | 40 x 50 | 44 x 60 |
|---|---|---|---|---|---|---|
| Weights | 30 | 60 | 80 | 100 | 200 | 300 lbs. |
| Price per lb. | .... | .... | .... | .... | .... | .... |

### BEST MANILLA

| Sizes | 18 x 24 | 20 x 30 | 24 x 36 | 30 x 40 | 32 x 48 | 40 x 50 |
|---|---|---|---|---|---|---|
| Weights | 30 | 40 | 60 | 80 | 120 | 200 lbs. |
| Price per lb. | .... | .... | .... | .... | .... | .... |

### SQUARE BOTTOM MANILLA BAGS

| Sizes | ¼ | ½ | 1 | 2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 | 20 | 25 lbs. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Light per 1000 | $0.75 | 0.90 | 1.10 | 1.50 | 1.90 | 2.30 | 2.70 | 3.20 | 4.10 | 4.50 | 5.50 | 6.50 | 7.00 | 8.00 | 9.00 |
| Heavy " | 1.00 | 1.20 | 1 40 | 1.80 | 2.20 | 2.60 | 3.10 | 3.60 | 4.70 | 5.70 | 7.00 | 8.00 | 9.00 | 10.00 | 11 00 |

### EXTRA HEAVY MANILLA BAGS

Hand made, tight and strong—for wrapping powder, paris green, dry colors, etc.

| | |
|---|---|
| ¼, ½, 1 and 2 lb. bags | per lb. $.. |
| 5, 8, 12 and 20 lb. " | " ... |

## SHOT BAGS

| | |
|---|---|
| 1 lb. bags | per 100 bags .... |
| 3 " | " .... |

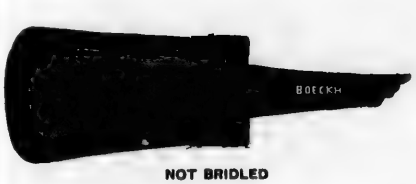
## FOLDING NAIL BOXES

Strawboard.

| | |
|---|---|
| Sizes, 3, 5, 7 and 10 lbs. | per lb. ... |

# PAINT BRUSHES

## ROUND OR OVAL




NOT BRIDLED




BRIDLED

No. 1—Round, Ground, Grey Centre, White Outside, Bridled ready for use from No. 1-0 up without extra charge.

" 2—Oval or Round, Extra Ground, Grey Centre, all Bristles, Bridled ready for use, from No. 1-0 up without extra charge.

" 3—Oval, Extra, all White, Bridled ready for use from No. 1-0 up without extra charge.

" 4—Oval or Round, Super, all White Bristles, Bridled ready for use from No. 1-0 up without extra charge.

| Size Nos | | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 1-0 | 2-0 | 3-0 | 4-0 | 5-0 | 6-0 | 7-0 | 8-0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. 1 | per doz. | $1.40 | 1.80 | 2.40 | 3.00 | 3.75 | 4.50 | 5.25 | 6.60 | 8.55 | 10.35 | 12.50 | 15.25 | 17.50 | 21.00 | 24.00 |
| " 2 | " | 1.65 | 2.00 | 2.75 | 3.50 | 4.25 | 5.25 | 5.85 | 7.75 | 9.00 | 11.50 | 13.75 | 16.00 | 19.50 | 23.00 | 26.00 |
| " 3 | " | 2.20 | 2.85 | 3.35 | 4.00 | 4.65 | 5.35 | 6.00 | 7.65 | 9.75 | 11.50 | 13.50 | 16.00 | 18.00 | 22.00 | 25.00 |
| " 4 | " | 2.40 | 3.15 | 3.80 | 4.25 | 5.25 | 5.75 | 6.35 | 8.15 | 10.75 | 13.10 | 15.05 | 18.10 | 22.15 | 25.85 | 29.65 |




**No. 9A, COLUMBIA OVAL CHISEL PAINT**

Selected Black China Bristles. Bridled ready for use without extra charge.

| Nos | 4-0 | 5-0 | 6-0 | 7-0 | 8-0 | 9-0 |
|---|---|---|---|---|---|---|
| Per dozen | $16.10 | 19.00 | 21.75 | 25.65 | 29.45 | 35.50 |

## FLAT PAINT BRUSHES




No. 10—Ground, Grey Centre, White Outside.

" 11—Acme, White Bristles.

" 12—Extra Grey, all Grey Bristles, White Outside, Bridled from 3-0 up.

" 13—Standard, all White Bristles, Metal Bound, Bridled from 3-0 up.

| Size Nos | | 2-0 | | | 3-0 | | | | 4-0 | | | 5-0 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length of Hair | inches | 3 | 3½ | 4 | 2½ | 3 | 3½ | 4 | 3 | 3½ | 4 | 3 | 3½ | 4 |
| No. 10 | per doz. | $ | | | 5.25 | 6.00 | 7.25 | 8.75 | | | | | | |
| " 11 | " | | | | 3.50 | 5.00 | 6.65 | 8.00 | | | | | | |
| " 12 | " | 9.50 | 10.65 | | | 13.50 | 15.50 | 17.40 | 17.30 | 19.45 | 21.35 | 24.00 | 27.25 | 30.50 |
| " 13 | " | 10.65 | 12.00 | | | 14.50 | 16.60 | 18.65 | 17.85 | 20.25 | 22.65 | 19.85 | 22.60 | 25.65 |

# PAINTERS' SASH TOOLS




**ROUND SASH**

| Size Nos. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. 26—Wire Bound, all White Bristles | per doz. | $0.65 | 0.85 | 1.05 | 1.35 | 1.65 | 2.00 | 2.35 | 2.55 | .... | .... |
| " 27—Twine Bound, all Bristles | " | 0.75 | 0.95 | 1.15 | 1.35 | 1.65 | 2.00 | 2.35 | 2.65 | 3.00 | 3.35 |



**DOMED SASH**

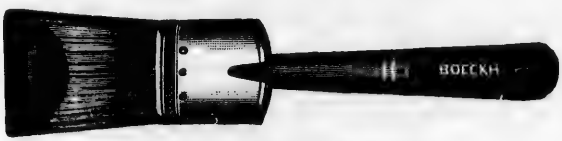



**CHISELLED SASH**

No. 28A—Standard Flat Sash, Selected French Bristles, Metal Bound.
" 30 —Standard Domed Sash, Selected French Bristles, Metal Bound.
" 31 —Standard Chiselled Sash, Selected French Bristles, all White, Metal Bound.

| Size Nos. | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. 28A | per doz. | $1.20 | 1.55 | 1.95 | 2.40 | 3.05 | 3.55 | 4.30 | 5.00 | 5.85 | 6.60 | .... |
| " 30 | " | 1.35 | 1.60 | 2.00 | 2.55 | 3.20 | 3.65 | 4.35 | 5.35 | 6.40 | 7.20 | .... |
| " 31 | " | .... | .... | .... | 2.55 | 3.35 | 4.25 | 5.25 | 6.50 | 7.65 | 8.65 | 13.20 |

## CHISELLED FLOWING BRUSHES




**No. 39, SINGLE CHISELLED FLOWING**

| Size | | 1 | 1½ | 2 | 2½ | 3 inch. |
|---|---|---|---|---|---|---|
| No. 39 | per doz. | $5.40 | 7.20 | 9.60 | 13.45 | 17.25 |

## MOTTLERS




**Nos. 92 and 93**

## VARNISH OR COPYING BRUSHES



**No. 91**

| Size, | | ½ | 1 | 1½ | 2 | 2½ | 3 | 3½ inch. |
|---|---|---|---|---|---|---|---|---|
| No. 92—Camel Hair Mottlers | per doz. | $2.90 | 3.20 | 5.20 | 7.50 | 11.20 | 14.40 | 18.60 |
| " 93—Bear " " | " | 2.00 | 2.60 | 3.85 | 5.20 | 6.45 | 7.80 | 9.15 |

No. 91B—Camel Hair, Varnish or Copying, A quality.... per doz. inches $1.60
" 91C— " " " " " B " " 2.15

# FLAT WALL PAINT BRUSHES




**No. 18**

**All Bristles, Grey Centre, White Outside, Metal Bound, not Bridled.**

| Size Nos. | 5 | 4 | 3 | 2 | 1 | 1-0 | 2-0 |
|---|---|---|---|---|---|---|---|
| Per dozen | $5.35 | 6.65 | 8.00 | 9.35 | 12.00 | 13.35 | 14.65 |

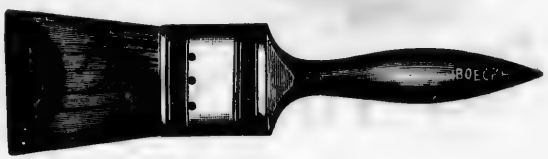
## VARNISH BRUSHES




**OVAL**

No. 23A—White, Chiselled Oval, Superior White French Bristles, Nickel Ferrules.
" 23B—Black, " " Selected Black China Bristles, specially prepared.

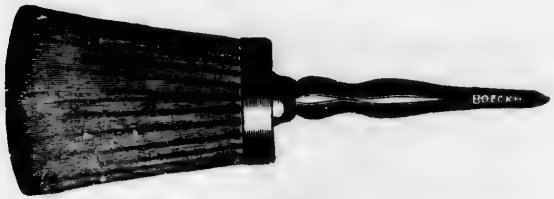
| Size Nos. | 6 | 5 | 4 | 3 | 2 | 1 | 1-0 | 2-0 | 3-0 |
|---|---|---|---|---|---|---|---|---|---|
| No. 23A per doz. | $4.65 | 5.65 | 6.65 | 7.65 | 9.35 | 10.65 | 13.35 | 16.00 | 19.35 |
| " 23B " " | 3.65 | 4.35 | 5.00 | 6.00 | 7.35 | 8.00 | 9.35 | 11.35 | 13.35 |




**FLAT**

| Size | 1 | 1½ | 2 | 2½ | 3 inch. |
|---|---|---|---|---|---|
| No. 33—Thin Flat, all Bristles per doz. | $1.00 | 1.40 | 2.15 | 2.85 | 3.65 |
| " 34—Medium Flat " " | 1.40 | 2.30 | 3.15 | 4.00 | 4.80 |
| " 35—Heavy Flat " " | 1.90 | 2.90 | 4.25 | 5.65 | 7.65 |
| " 36—Extra Heavy Flat, all Bristles " | 2.80 | 4.35 | 6.00 | 8.00 | 10.65 |
| " 37—Chiselled, all White Bristles " | 2.35 | 3.65 | 5.35 | 7.00 | 9.35 |
| " 36A—Electric, Chiselled, all Black Bristles " | 0.80 | 1.30 | 2.50 | 3.00 | 4.00 |
| " 36C —Chiselled, all Black China Bristles " | 2.35 | 3.65 | 5.35 | 7.00 | 9.35 |
| " 36DX — " " " " " | 3.65 | 4.65 | 6.00 | 8.00 | 10.65 |
| " 36EXX — " " " " " | 4.00 | 5.00 | 6.65 | 9.35 | 12.00 |
| " 36FXXX— " " " " " | 4.65 | 6.00 | 8.00 | 10.65 | 14.65 |

# PAINTERS' DUSTERS




**Nos. 50 and 51**

Varnished Handles.

| Size | | 4 | 6 | 8 | 10 inch. |
|---|---|---|---|---|---|
| No. 50—Extra, Grey Centre, Black Casing, Wire Drawn | per doz. | $6.00 | 9.00 | 11.65 | 13.35 |
| " 51—Super, Mixed Grey Centres, White Casing, Wire Drawn | " | 8.00 | 11.35 | 13.35 | 16.00 |

## SEAMING OR CAULKING BRUSHES



**No. 69**

Drawn with Brass Wire.

| Size | | 4½ | 6 inch. |
|---|---|---|---|
| Extra Mixed | per doz. | $1.95 | 2.95 |
| All Bristles | | 3.65 | 4.40 |

## BRICK HEADERS OR TRENCHERS

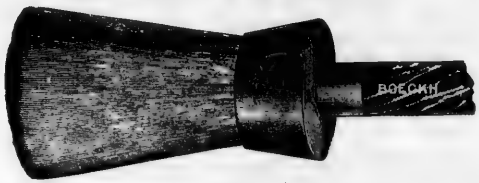



**No. 70**

For striping brick walls.

| Size | 2 | 2½ | 3 | 3½ | 4 inch. |
|---|---|---|---|---|---|
| Per doz | $2.15 | 2.20 | 2.25 | 2.35 | 3.00 |

## GLUE OR PASTE BRUSHES




**No. 72**

All Grey Bristles, Wire or Iron Bound.

| Nos. | 6 | 4 | 2 | 1-0 | 2-0 | 3-0 | 4-0 | 5-0 | 6-0 |
|---|---|---|---|---|---|---|---|---|---|
| Per doz. | $2.55 | 4.00 | 6.60 | 9.55 | 14.65 | 20.55 | 28.40 | 32.00 | 40.00 |

## STENCIL BRUSHES




**No. 74**

All White French Bristles, Iron Ferrules.

| Nos | 00 | 0 | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|---|---|
| Per doz | $1.45 | 1.75 | 2.05 | 2.45 | 2.95 | 3.40 | 3.85 | 4.40 |
| Nos | 7 | 8 | 10 | 12 | 14 | 16 | 18 | |
| Per doz | $5.00 | 5.60 | 6.20 | 8.80 | 11.00 | 13.20 | 17.65 | |

## MARKING BRUSHES

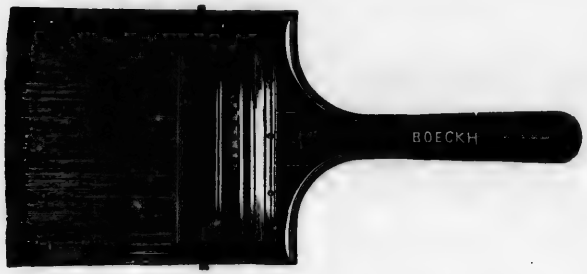


**No. 121**

Round or Flat.

| Nos | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Per gross | $4.80 | 5.85 | 6.95 | 8.00 | 10.00 | 12.00 |
| Nos. 1 to 6, assorted | | | | | | per gross 7.20 |

# KALSOMINE BRUSHES




| Size | 6 | 7 | 8 | 9 | inch. |
|---|---|---|---|---|---|
| No. 43 —Mixed White, Iron Bound, 3-0 ..... per doz. | $ 8.00 | 9.35 | 10.65 | 12.00 | |
| " 44A— " " Brass Bound, Special ..... " | 21.35 | 23.65 | 28.00 | ..... | |
| " 46 - All White, Brass Bound, Standard, 3-0 ..... " | 14.65 | 17.35 | 20.00 | 22.65 | |
| " 46 — " " " " 4-0 ..... ..... " | 22.65 | 26.65 | 30.65 | 34.65 | |

### No. 44, C. KALSOMINE

Extra White Mixed, Bristles Outside, Lacquered Ferrules, Varnished Handles.

| Size Nos | 1-0 | | 2-0 | | | 3-0 | | | 4-0 | | | 6-0 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Width | 7 | 8 | 6 | 7 | 8 | 6 | 7 | 8 | 6 | 7 | 8 | 6 | 7 | 8 | inch. |
| No. 44 ....per doz. | $6.00 | 7.35 | 7.50 | 9.00 | 10.00 | 10.00 | 11.65 | 13.35 | 13.35 | 14.65 | 16.00 | 16.00 | 18.00 | 19.35 | |

### No. 47, IMPERIAL O.K. KALSOMINE

All Selected White Russian Bristles throughout, Brass Ferrules.

| Size Nos | 5-0 | | | 6-0 | | 8-0 | | 10-0 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Width | 6 | 7 | 8 | 7 | 8 | 7 | 8 | 7 | 8 | 9 | inch. |
| No. 47 ..... per doz. | $29.35 | 33.35 | 40.00 | 46.65 | 52.00 | 60.00 | 66.65 | 66.65 | 73.35 | 80.00 | |

## WHITEWASH BRUSHES AND HEADS




Nos. 47B and 48C



No. 49

| Size Nos | 1 | | | | 1-0 | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Width | 6 | 7 | 8 | 9 | 6 | 7 | 8 | 9 | inch. |
| No. 47B ..... per doz. | $2.00 | 2.35 | 2.65 | 3.50 | 2.75 | 3.25 | 3.75 | 4.25 | |

### No. 48, CROWN WHITEWASH BRUSHES

Extra Mixed Centre, White Outside, Leather Bound.

| Size Nos | 2-0 | | | 3-0 | | | 4-0 | | | 5-0 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Width | 6 | 7 | 8 | 6 | 7 | 8 | 7 | 8 | 9 | 7 | 8 | 9 | inch. |
| No. 48C ..... per doz. | $6.00 | 7.00 | 8.00 | 9.35 | 10.65 | 12.00 | 16.00 | 18.65 | 21.35 | 22.65 | 24.70 | 26.65 | |
| " 49—Heads... " | .... | .... | .... | 11.75 | 13.20 | 14.65 | 16.85 | 19.80 | 23.45 | 26.40 | 29.35 | 32.25 | |

# SCRUBBING AND STOVE BRUSHES







### No. 140

Shaped Pattern. Made with Patent Solid Back.

| | | |
|---|---|---|
| No. **60**—Fibre, Double Wing.....per doz. | | $ 3.60 |
| " **61**— " " ..... " | | 4.20 |
| " **62**— " " ..... " | | 5.00 |
| " **70**—Whisk " ..... " | | 4.00 |
| " **71**— " " ..... " | | 4.75 |
| " **72**— " " ..... " | | 5.50 |
| " **80**—Super Whisk, Double Wing.... " | | 5.00 |
| " **81**— " " .... " | | 6.00 |
| " **82**— " " .... " | | 7.00 |
| " **90**—Monkey Bass " .... " | | 5.35 |
| " **91**— " " .... " | | 6.65 |
| " **92**— " " .... " | | 8.00 |
| " **100**—Extra Grey Mixed " .... " | | 6 55 |
| " **101**— " " .... " | | 7.75 |
| " **102**— " " .... " | | 8.95 |
| " **111**—Yellow OK " .... " | | 9.35 |
| " **112**— " " .... " | | 11.35 |

### No. 145, RUBBER OR DECK SCRUBS

Hardwood Handles included.

| | | |
|---|---|---|
| No. **10**—Fibre .....per doz. | | $ 9.00 |
| " **20**—Whisk..... " | | 9.00 |
| " **30**—Grey Mixed..... " | | 11.65 |
| Extra Hardwood Handles..... " | | 1.00 |




### No. 152, BLACK LEAD DAUBERS

| | | |
|---|---|---|
| No. **0**—Black Fibre.....per doz. | | $ 0.80 |
| " **1**—White Centre..... " | | 1.35 |
| " **2**—Grey Centre..... " | | 1.75 |
| " **3**—All Black, Extra Quality..... " | | 2.75 |




### No. 149, STOVE BRUSH

Straight Pattern.

| | | |
|---|---|---|
| No. **30**—Grey Centre, Double Wing.....per doz. | | $3.00 |
| " **31**— " " ..... " | | 4.00 |
| " **40**—Black Mixed " ..... " | | 4.50 |
| " **41**— " " ..... " | | 5.35 |




### No. 150, STOVE BRUSHES

Pointed Pattern.

| | | |
|---|---|---|
| No. **70**—Black Bristles, without Wings..per doz. | | $ 6.35 |
| " **71**— " " .. " | | 8.00 |
| " **80**—Extra Long Black " .. " | | 7.35 |
| " **81**— " " .. " | | 9.65 |
| " **90**—Extra Black, Double Wings.... " | | 8 00 |
| " **91**— " " .... " | | 10.00 |

## SHOE BRUSHES AND DAUBERS



### No. 155, TOP SHOE

| | | | | | |
|---|---|---|---|---|---|
| Nos..... | **00** | **0** | **20** | **21** | **16** |
| Mixed.....per doz. | $1.60 | 2.40 | 2.65 | 3.35 | 3.60 |
| Nos..... | | | | **25** | **7** |
| Black Bristles.....per doz. | | | | $5.50 | 7.50 |



### No. 158, DAUBERS

| | | |
|---|---|---|
| Royal..... per doz. | | $ 6.00 |
| People's .... " | | 3.25 |
| No. **157**—With Wood Handle— | | |
| No. 1, Black Mixed ..... " | | 2.00 |
| " 2, " Extra.. ... " | | 2.65 |

# SHOE BRUSHES







### No. 154, HANDLED SHOE BRUSHES

Square Pattern.

| Nos. | 10 | 10½ | 11 | 12 |
|---|---|---|---|---|
| Black Mixed ..... per doz. | $2.75 | 4.00 | 4.50 | 5.00 |
| Nos. | 20 | 20½ | 21 | 22 |
| Black Extra ..... per doz. | $4.50 | 5.55 | 7.05 | 8.65 |
| Nos. | 30 | 31 | 32 | |
| Grey O.K. Bristles ..... per doz. | $9.35 | 12.65 | 16.00 | |
| Nos. | 40 | 41 | 42 | |
| Black Bristles ..... per doz. | $12.00 | 16.00 | 20.00 | |

### No. 156, ROACHED SHOE BRUSHES

English Style Roached Backs.

| Nos. | 10 | 11 | 12 | 112 |
|---|---|---|---|---|
| Black Mixed Mud Brush.. per doz. | $3.50 | 4.50 | 5.35 | 4.40 |
| Nos. | 20 | 21 | 22 | |
| Black Extra, Blacking ..... per doz. | $4.50 | 5.35 | 6.65 | |
| Nos. | 30 | 31 | 32 | |
| Grey O.K. Bristles, Polishing. per doz. | $8.00 | 11.35 | 14.65 | |
| Nos. | 40 | 41 | 42 | |
| Black Hair, Polishing ..... per doz. | $16.00 | 18.65 | 21.35 | |

# HOUSEHOLD BRUSHES





### No. 159, SINGLE BANNISTERS

| | | |
|---|---|---|
| No. 10—Grey Centre, Painted Handles | per doz. | $ 5.15 |
| " 11— " " " | " | 6.20 |
| " 12— " " " | " | 7.35 |
| " 13— " " " | " | 8.80 |
| " 14— " " " | " | 4.65 |
| " 15— " " " | " | 6.00 |
| " 20— " Varnished Handles. | " | 6.15 |
| " 21— " " | " | 8.05 |
| " 22— " " | " | 9.55 |
| " 23— " " | " | 11.00 |
| " 30—All White Fancy Gilt Handles | " | 8.80 |
| " 31— " " | " | 11.00 |
| " 32— " " | " | 13.20 |
| " 33— " " | " | 16.15 |
| " 40—All Grey Cherry Handles | " | 11.00 |
| " 41— " " | " | 13.60 |
| " 42— " " | " | 16.15 |
| " 50—All White " | " | 13.20 |
| " 51— " " | " | 15.75 |
| " 52— " " | " | 18.35 |

### No. 162, HAIR BROOMS

Varnished Handles included in prices.

| | | |
|---|---|---|
| No. 30—Grey Centre, 10 in. Wood | per doz. | $14.45 |
| " 31— " 11 " | " | 18.85 |
| " 32— " 12 " | " | 23.25 |
| " 33— " 13 " | " | 25.25 |
| " 35— " 15 " | " | 33.25 |
| " 36— " 16 " | " | 41.25 |
| " 40—All Grey, Extra Quality, 10 in. Wood | " | 18.85 |
| " 41— " " 11 " | " | 24.70 |
| " 42— " " 12 " | " | 30.00 |
| " 44— " " 14 " | " | 45.25 |
| " 46— " " 16 " | " | 49.25 |
| " 48— " " 18 " | " | 73.25 |
| " 49— " " 24 " | " | 89.25 |
| " 50—All White " 10 " | " | 36.45 |
| " 51— " " 11 " | " | 45.25 |
| " 52— " " 12 " | " | 54.05 |
| " 56— " " 16 " | " | 65.25 |
| Extra Handles, Varnished | " | 1.25 |

### No. 160, DOUBLE BANNISTERS

| | | |
|---|---|---|
| No. 60—Grey Centre | per doz. | $ 8.05 |
| " 61— " | " | 10.25 |
| " 62— " | " | 12.05 |
| " 63— " | " | 13.95 |

# HOUSEHOLD BRUSHES



**No. 172, CORNICE DUSTERS**

| Nos. | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| Per doz. | $13.35 | 18.65 | 24.00 | 29.35 | 40.00 |



**No. 177, FEATHER DUSTERS**

Standard Turkey.
Bell-shape, full length.

| Nos. | 10 | 12 | 14 | 16 | 18 |
|---|---|---|---|---|---|
| Per doz. | $5.00 | 6.75 | 9.00 | 11.00 | 12.50 |

## WINDOW BRUSHES AND CLEANERS



**No. 164**

| | | | |
|---|---|---|---|
| No. | 0 | Grey Centre ..... per doz. | $6.20 |
| " | 1 | " ..... " | 8.05 |
| " | 2 | " ..... " | 10.25 |
| " | 3 | " ..... " | 12.45 |
| " | 4 | " ..... " | 14.65 |
| " | 5 | " ..... " | 23.45 |
| " | 101 | White Fibre ..... " | 6.65 |
| " | 102 | " ..... " | 9.35 |
| " | 103 | " ..... " | 12.00 |
| " | 10 | Grey Mixed, Oval ..... " | 5.35 |
| " | 11 | " " ..... " | 6.65 |
| " | 20 | All Black Hair ..... " | 10.65 |
| " | 21 | " " ..... " | 13.35 |




**No. 165**

| | | | |
|---|---|---|---|
| Single Rubber Cleaner .. ..... | per doz. | $5.00 |
| Double " " 9 in ..... | " | 6.00 |
| " " " 12 " ..... | " | 8.00 |




**No. 165**

| | | |
|---|---|---|
| Double Rubber Cleaner, 15 in. ..... | per doz. | $11.20 |
| Combination Brush and Rubber ..... | " | 10.00 |

## PLATE POLISHING BRUSHES




Small Straight Pattern.

| | | | |
|---|---|---|---|
| No. | 10 | 3 Row, White Fibre ..... per doz. | $2.95 |
| " | 11 | 4 " " " ..... " | 3.25 |
| " | 12 | 5 " " " ..... " | 4.00 |
| " | 13 | 6 " " " ..... " | 4.40 |
| " | 30 | 3 " All Bristles ..... " | 3.65 |
| " | 31 | 4 " " ..... " | 4.40 |
| No. | 32 | 5 Row, All Bristles ..... per doz. | $5.15 |
| " | 33 | 6 " " ..... " | 5.85 |

Large Bent Pattern.

| | | | |
|---|---|---|---|
| No. | 20 | 3 Row, Mixed Hair ..... " | 4.40 |
| " | 21 | 4 " " " ..... " | 5.15 |
| " | 22 | 5 " " " ..... " | 5.85 |
| " | 23 | 6 " " " ..... " | 6.60 |

# HORSE BRUSHES



**No. 216, WOODEN BACK**

Solid Backs, Warranted not to come off.

| | | | |
|---|---|---|---|
| No. **20**—Union | per doz. | $ 3.35 |
| " **21**— " | " | 4.65 |
| " **22**— " | " | 6.00 |
| " **30**—Mixed Centre, Black Edge | " | 7.35 |
| " **31**— " " " | " | 8.65 |
| " **32**— " " " | " | 10.00 |
| " **40**— " White Edge | " | 9.35 |
| " **41** - " " | " | 11.35 |
| " **42**— " " " | " | 13.35 |




**No. 217, LEATHER BACK**

Best Quality Russet Backs and Straps, Handsomely Finished, Machine Sewed.

| | | | |
|---|---|---|---|
| No. **110**—Mixed Hair | per doz. | $ 7.35 |
| " **111**— " | " | 9.35 |
| " **120**—All Black | " | 8.65 |
| " **121**— " | " | 11.35 |
| " **130**—Yellow Im. OK | " | 12.00 |
| " **131**— " " | " | 14.65 |
| " **140**—White Bristles | " | 22.65 |
| " **141**— " | " | 26.65 |
| " **150**—Grey Bristles, Stiff | " | 32.00 |

## DANDY BRUSHES




Patent Solid Backs, Warranted not to come off.

| | | | | | |
|---|---|---|---|---|---|
| Nos | | **20** | **25** | **200** | **45** |
| Acme Whisk | per doz. | $3.00 | 3.80 | 4.00 | 5.75 |
| Nos | | | **108** | **60** | **62** |
| Super Whisk, with Leather Sides | per doz. | .... | 4.50 | 9.25 | 15.00 |
| Nos | | **5** | **370** | **50** | **51** | **52** |
| All Kittool, Black | per doz. | $8.65 | 6.00 | 8.00 | 11.00 | 14.00 |
| Nos | | | | **111** | **70** | **72** |
| All Kittool, with Leather Sides | per doz. | .... | .... | 8 00 | 11.50 | 16.00 |

## STABLE BROOMS




**No. 226, BASS STABLE BROOMS**

Best Bahia Bass. Handles included.

| | | | | |
|---|---|---|---|---|
| Nos | **3** | **4** | **5** | **6** |
| Per dozen | $11.00 | 15.00 | 18.50 | 21.00 |

**No. 227, CANE STABLE BROOMS**

Best Quality Cane. Handles included.

| | | | | |
|---|---|---|---|---|
| Nos | **3** | **4** | **5** | **6** |
| Per dozen | $10.00 | 12.00 | 14.00 | 16.00 |

**EXTRA HANDLES**

| | | |
|---|---|---|
| Medium Hardwood, for Nos. 3 and 4 | per doz. | $1.00 |
| Large Hardwood, for Nos. 5 and 6 | " | 1.25 |
| Extra Large and Heavy | " | 2.00 |

# CARRIAGE BOLTS



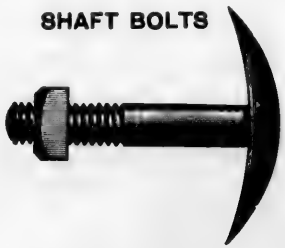
## WITH SHORT SQUARE, AND TRIMMED HEADS

**Price per Hundred**

| Length. | 3-16 and 1-4 Inch. | 5-16 Inch | 3-8 Inch. | 7-16 Inch | Inch. | 9-16 and 5-8 Inch. | 3-4 Inch. |
|---|---|---|---|---|---|---|---|
| 1½ Inch | $1.00 | $1.20 | $1.50 | $2.20 | $3.00 | $5.00 | $7.20 |
| 1¾ " | 1.04 | 1.25 | 1.50 | 2.20 | 3.00 | 5.00 | 7.20 |
| 2 " | 1.08 | 1.30 | 1.50 | 2.20 | 3.00 | 5.00 | 7.20 |
| 2¼ " | 1.12 | 1.35 | 1.57 | 2.28 | 3.00 | 5.00 | 7.20 |
| 2½ " | 1.16 | 1.40 | 1.64 | 2.36 | 3.00 | 5.00 | 7.20 |
| 2¾ " | 1.20 | 1.45 | 1.71 | 2.44 | 3.00 | 5.00 | 7.20 |
| 3 " | 1.24 | 1.50 | 1.78 | 2.52 | 3.00 | 5.00 | 7.20 |
| 3¼ " | 1.28 | 1.55 | 1.85 | 2.60 | 3.10 | 5.15 | 7.40 |
| 3½ " | 1.32 | 1.60 | 1.92 | 2.68 | 3.20 | 5.30 | 7.60 |
| 3¾ " | 1.36 | 1.65 | 1.99 | 2.76 | 3.30 | 5.45 | 7.80 |
| 4 " | 1.40 | 1.70 | 2.06 | 2.84 | 3.40 | 5.60 | 8.00 |
| 4¼ " | 1.44 | 1.75 | 2.13 | 2.92 | 3.50 | 5.75 | 8.20 |
| 4½ " | 1.48 | 1.80 | 2.20 | 3.00 | 3.60 | 5.90 | 8.40 |
| 4¾ " | 1.52 | 1.85 | 2.27 | 3.08 | 3.70 | 6.05 | 8.60 |
| 5 " | 1.56 | 1.90 | 2.34 | 3.16 | 3.80 | 6.20 | 8.80 |
| 5½ " | 1.64 | 2.00 | 2.48 | 3.32 | 4.00 | 6.50 | 9.20 |
| 6 " | 1.72 | 2.10 | 2.62 | 3.48 | 4.20 | 6.80 | 9.60 |
| 6½ " | 1.80 | 2.20 | 2.76 | 3.64 | 4.40 | 7.10 | 10.00 |
| 7 " | 1.88 | 2.30 | 2.90 | 3.80 | 4.60 | 7.40 | 10.40 |
| 7½ " | 1.96 | 2.40 | 3.04 | 3.96 | 4.80 | 7.70 | 10.80 |
| 8 " | 2.04 | 2.50 | 3.18 | 4.12 | 5.00 | 8.00 | 11.20 |
| 8½ " | 2 12 | 2.60 | 3 32 | 4.28 | 5.20 | 8.30 | 11.60 |
| 9 " | 2.20 | 2.70 | 3.46 | 4.44 | 5.40 | 8.60 | 12.00 |
| 9½ " | 2.28 | 2.80 | 3.60 | 4 60 | 5.60 | 8.90 | 12.40 |
| 10 " | 2.36 | 2.90 | 3.74 | 4.76 | 5.80 | 9.20 | 12.80 |
| 11 " | 2.52 | 3.10 | 4 02 | 5 08 | 6.20 | 9.80 | 13.60 |
| 12 " | 2.68 | 3.30 | 4.30 | 5.40 | 6.60 | 10.40 | 14.40 |
| 13 " | 2 84 | 3 50 | 4.58 | 5.72 | 7.00 | 11.00 | 15.20 |
| 14 " | 3.00 | 3 70 | 4.86 | 6.04 | 7.40 | 11.60 | 16.00 |
| 15 " | 3.16 | 3.90 | 5.14 | 6.36 | 7.80 | 12.20 | 16.80 |
| 16 " | 3.32 | 4.10 | 5.42 | 6.68 | 8.20 | 12.80 | 17.60 |
| 17 " | 3.48 | 4.30 | 5.70 | 7.00 | 8.60 | 13.40 | 18.40 |
| 18 " | 3.64 | 4.50 | 5.98 | 7.32 | 9.00 | 14.00 | 19.20 |
| 19 " | 3 80 | 4.70 | 6.26 | 7.64 | 9.40 | 14.60 | 20.00 |
| 20 " | 3.96 | 4.90 | 6.54 | 7.96 | 9.80 | 15.20 | 20.80 |
| Advance per inch | 0.16 | 0.20 | 0.28 | 0.32 | 0.40 | 0 60 | 0.80 |

Lengths under 1 inch charged at same price as 1 inch. Any of the above ordered with Hexagon Nuts will be charged 10 per cent. extra. Any lengths between those named on this list will be charged at the succeeding price.

# SHAFT BOLTS



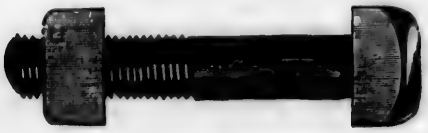
**5/16 and ¼ Inch**

| Length | 1 | 1¼ | 1½ | 1¾ | 2 | 2¼ | 2½ | 2¾ | 3 | 3½ | 4 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Price ..... per hundred | $3.00 | 3.10 | 3.20 | 3.30 | 3.40 | 3.50 | 3.60 | 3.70 | 3.80 | 4.00 | 4.20 | |

**5/16 Inch**

| Length | 1 | 1¼ | 1½ | 1¾ | 2 | 2¼ | 2½ | 2¾ | 3 | 3½ | 4 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Price ..... per hundred | $4.00 | 4.00 | 4.00 | 4.00 | 4.10 | 4.20 | 4.40 | 4.50 | 4.70 | 5.00 | 5.30 | |

# MACHINE BOLTS



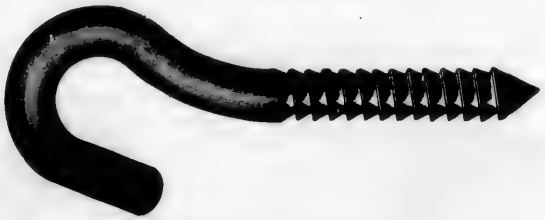
## WITH SQUARE HEADS AND NUTS

**Price per Hundred**

| Length. | ¼ | 5/16 | ⅜ | 7/16 | ½ | 9/16 & ⅝ | ¾ | ⅞ | 1 |
|---|---|---|---|---|---|---|---|---|---|
| 1½ Inch | $1.70 | 2.00 | 2.40 | 2.80 | 3.60 | 5.20 | 7.20 | 10.00 | 14.40 |
| 2 " | 1.78 | 2.10 | 2.52 | 2.96 | 3.80 | 5.50 | 7.64 | 10.60 | 15.20 |
| 2½ " | 1.86 | 2.20 | 2.64 | 3.12 | 4.00 | 5.80 | 8.08 | 11.20 | 16.00 |
| 3 " | 1.94 | 2.30 | 2.76 | 3.28 | 4.20 | 6.10 | 8.52 | 11.80 | 16.80 |
| 3½ " | 2.02 | 2.40 | 2.88 | 3.44 | 4.40 | 6.40 | 8.96 | 12.40 | 17.60 |
| 4 " | 2.10 | 2.50 | 3.00 | 3.60 | 4.60 | 6.70 | 9.40 | 13.00 | 18.40 |
| 4½ " | 2.18 | 2.60 | 3.12 | 3.76 | 4.80 | 7.00 | 9.84 | 13.60 | 19.20 |
| 5 " | 2.26 | 2.70 | 3.24 | 3.92 | 5.00 | 7.30 | 10.28 | 14.20 | 20.00 |
| 5½ " | 2.34 | 2.80 | 3.36 | 4.08 | 5.20 | 7.60 | 10.72 | 14.80 | 20.80 |
| 6 " | 2.42 | 2.90 | 3.48 | 4.24 | 5.40 | 7.90 | 11.16 | 15.40 | 21.60 |
| 6½ " | 2.50 | 3.00 | 3.60 | 4.40 | 5.60 | 8.20 | 11.60 | 16.00 | 22.40 |
| 7 " | 2.58 | 3.10 | 3.72 | 4.56 | 5.80 | 8.50 | 12.04 | 16.60 | 23.20 |
| 7½ " | 2.66 | 3.20 | 3.84 | 4.72 | 6.00 | 8.80 | 12.48 | 17.20 | 24.00 |
| 8 " | 2.74 | 3.30 | 3.96 | 4.88 | 6.20 | 9.10 | 12.92 | 17.80 | 24.80 |
| 9 " | 2.90 | 3.50 | 4.20 | 5.20 | 6.60 | 9.70 | 13.80 | 19.00 | 26.40 |
| 10 " | 3.06 | 3.70 | 4.44 | 5.52 | 7.00 | 10.30 | 14.68 | 20.20 | 28.00 |
| 11 " | 3.22 | 3.90 | 4.68 | 5.84 | 7.40 | 10.90 | 15.56 | 21.40 | 29.60 |
| 12 " | 3.38 | 4.10 | 4.92 | 6.16 | 7.80 | 11.50 | 16.44 | 22.60 | 31.20 |
| 13 " | 3.54 | 4.30 | 5.16 | 6.48 | 8.20 | 12.10 | 17.32 | 23.80 | 32.80 |
| 14 " | 3.70 | 4.50 | 5.40 | 6.80 | 8.60 | 12.70 | 18.20 | 25.00 | 34.40 |
| 15 " | 3.86 | 4.70 | 5.64 | 7.12 | 9.00 | 13.30 | 19.08 | 26.20 | 36.00 |
| 16 " | 4.02 | 4.90 | 5.88 | 7.44 | 9.40 | 13.90 | 19.96 | 27.40 | 37.60 |
| 17 " | 4.18 | 5.10 | 6.12 | 7.76 | 9.80 | 14.50 | 20.84 | 28.60 | 39.20 |
| 18 " | 4.34 | 5.30 | 6.36 | 8.08 | 10.20 | 15.10 | 21.72 | 29.80 | 40.80 |
| 19 " | 4.50 | 5.50 | 6.60 | 8.40 | 10.60 | 15.70 | 22.60 | 31.00 | 42.40 |
| 20 " | 4.66 | 5.70 | 6.84 | 8.72 | 11.00 | 16.30 | 23.48 | 32.20 | 44.00 |
| Advance per inch above 20 inches | $0.16 | 0.20 | 0.24 | 0.32 | 0.40 | 0.60 | 0.88 | 1.20 | 1.60 |

Bolts with Hexagon Heads or Hexagon Nuts will be charged 10 per cent. extra. If both Hexagon Heads and Hexagon Nuts 20 per cent. extra. Lengths under 1½ inch charged at same price as 1½ inch. Any lengths between those named on this list will be charged at the succeeding price.

## WROUGHT FLOOR HOOKS

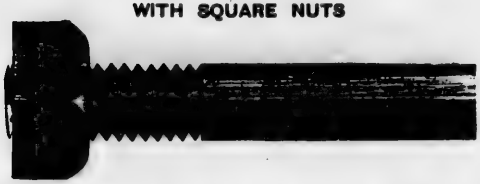


### WITH COACH SCREW THREAD

| | | | |
|---|---|---|---|
| Length | 6 | 7 | 7 inch. |
| Diameter | ⅝ | ⅝ | ¾ |
| Per hundred | $8.00 | 8.70 | 10.00 |

# BOLT ENDS

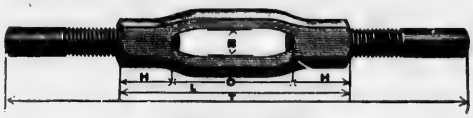
## WITH SQUARE NUTS



| Size of Iron..... | 5/16 | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1 1/8 | 1 1/4 | 1 3/8 | 1 1/2 | 1 5/8 | 1 3/4 | 1 7/8 | 2 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length..... | 6 | 7 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | " |
| Price per lb..... | $0.20 | 0.18 | 0.16 | 0.14 | 0.12 | 0.10 | 0.10 | 0.10 | 0.10 | 0.11 | 0.11 | 0.11 | 0.12 | 0.12 | 0.12 | 0.12 | |

Bolt Ends with Hexagon Nuts will be charged 10 per cent. extra.

## TURNBUCKLES




### WROUGHT IRON

Open hexagonal shape, complete with Right and Left Bolt Ends. The ends are machine finished or champered, and reamed and counter champered the depth of one thread before tapping, giving easy entrance to the bolt. These buckles are made with extra length of thread and have a perfect wrench hold.

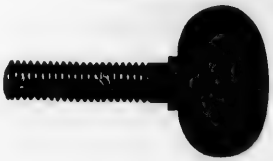
**Dimensions**—B size, diameter of screw; O, opening between heads 5½ inches. First length for all sizes: H, length of tapped head; L, length of buckle without bolt ends; T, total length of buckle and bolt ends.

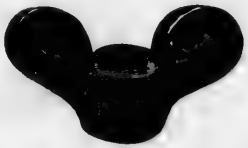
| Size B | Price, Each | O | H | L | T | Weight with Bolt Ends. |
|---|---|---|---|---|---|---|
| Inches. | | Inches. | Inches. | Inches. | Inches. | Pounds. |
| 3/8 | $0.40 | 5½ | 7/8 | 7¼ | 22 | 1½ |
| 7/16 | 0.42 | 5½ | 1 1/16 | 7 1/16 | 22 | 2 |
| 1/2 | 0.45 | 5½ | 1 | 7 1/8 | 22 | 2½ |
| 9/16 | 0.48 | 5½ | 1 1/16 | 7 1/16 | 22 | 2½ |
| 5/8 | 0.50 | 5½ | 1 1/8 | 7 1/8 | 22 | 3¼ |
| 11/16 | 0.63 | 5½ | 1 3/16 | 8¼ | 23 | 4¼ |
| 3/4 | 0.75 | 5½ | 1 1/4 | 8 3/8 | 24 | 5½ |
| 1 | 0 88 | 5½ | 1 11/16 | 9 | 25 | 7¼ |
| 1 1/8 | 1.00 | 5½ | 1 7/8 | 9 3/8 | 25 | 8¾ |
| 1 1/4 | 1.25 | 5½ | 2 1/16 | 9 3/4 | 26 | 11¼ |
| 1 3/8 | 1.38 | 5½ | 2 1/4 | 10 1/8 | 27 | 14¼ |
| 1 1/2 | 1.50 | 5½ | 2 7/16 | 10½ | 27 | 17 |
| 1 3/4 | 2.00 | 5½ | 2 3/4 | 11¼ | 28 | 25 |
| 2 | 2.65 | 5½ | 3 1/16 | 12 | 29 | 29 |
| 2 1/4 | 3.50 | 5½ | 3 5/16 | 12¾ | 30 | 46 |
| 2 1/2 | 4.50 | 5½ | 4 | 13¾ | 32 | 60 |
| 2 3/4 | 5.50 | 5½ | 4 3/8 | 14¼ | 33 | 73 |
| 3 | 6.50 | 5½ | 4 3/4 | 15 | 34 | 85 |

The above prices are for standard length buckles, viz.: 5½ inches clear between heads. Extra lengths furnished to order. Weights given are only approximate.

## MALLEABLE IRON THUMB SCREWS AND NUTS

### THREADED





| Diameter..... | | 5/16 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | inch. |
|---|---|---|---|---|---|---|---|---|
| Threads to the inch..... | | 30 | 20 | 18 | 16 | 14 | 12 | |
| Thumb Screws, 3/4 inch long..... | per 100 | $2.00 | 2.80 | 3.70 | .... | .... | .... | |
| " " " 1 " ..... | " | .... | 3.00 | 4.00 | 5.00 | .... | .... | |
| " " " 1½ " ..... | " | .... | .... | 4.60 | 5 60 | 6.75 | 8.00 | |
| Thumb Nuts..... | " | 0.75 | 0.75 | 1.00 | 1.25 | 1.50 | 2.00 | |

# COACH OR LAG SCREWS



GIMLET POINT

Price per Hundred

| Length. | ¼ & 5/16 Inch. | 3/8 Inch. | 7/16 Inch. | ½ Inch. | 9/16 & 5/8 Inch. | ¾ Inch. | ⅞ Inch. | 1 Inch. |
|---|---|---|---|---|---|---|---|---|
| 1½ Inch | $2.25 | $2.70 | $3.15 | $3.75 | | | | |
| 2 " | 2.40 | 2.88 | 3.39 | 4.05 | $4.95 | | | |
| 2½ " | 2.55 | 3.06 | 3.63 | 4.35 | 5.40 | $7.92 | | |
| 3 " | 2.70 | 3.24 | 3.87 | 4.65 | 5.85 | 8.58 | $12.30 | |
| 3½ " | 2.85 | 3.42 | 4.11 | 4.95 | 6.30 | 9 24 | 13.20 | $18.60 |
| 4 " | 3.00 | 3.60 | 4.35 | 5.25 | 6.75 | 9.90 | 14.10 | 19.80 |
| 4½ " | 3.15 | 3.78 | 4.59 | 5.55 | 7.20 | 10.56 | 15.00 | 21.00 |
| 5 " | 3.30 | 3.96 | 4 83 | 5.85 | 7.65 | 11 22 | 15.90 | 22.20 |
| 5½ " | 3.45 | 4.14 | 5.07 | 6.15 | 8.10 | 11.88 | 16.80 | 23.40 |
| 6 " | 3.60 | 4.32 | 5.31 | 6.45 | 8.55 | 12.54 | 17.70 | 24.60 |
| 6½ " | 3.75 | 4.50 | 5.55 | 6.75 | 9.00 | 13.20 | 18.60 | 25.80 |
| 7 " | 3.90 | 4.68 | 5.79 | 7.05 | 9.45 | 13.86 | 19.50 | 27.00 |
| 7½ " | 4.05 | 4.86 | 6.03 | 7.35 | 9.90 | 14.52 | 20.40 | 28.20 |
| 8 " | 4.20 | 5.04 | 6.27 | 7.65 | 10.35 | 15.18 | 21.30 | 29.40 |
| 9 " | 4.50 | 5.40 | 6.75 | 8.25 | 11.25 | 16.50 | 23.10 | 31.80 |
| 10 " | 4.80 | 5.76 | 7.23 | 8.85 | 12.15 | 17.82 | 24.90 | 34.20 |
| 11 " | 5.10 | 6.12 | 7.71 | 9.45 | 13.05 | 19.14 | 26.70 | 36.60 |
| 12 " | 5.40 | 6.48 | 8.19 | 10.05 | 13.95 | 20.46 | 28.50 | 39.00 |

Lengths over 12 inch will be charged in proportion to above. Hexagon Heads, 10 per cent. extra. Slot Heads, 20 per cent. extra. Skein Bolts charged same list as Coach Screws.

# PLOW AND GUARD BOLTS



No. 1, KEY HEAD



No. 2, ROUND HEAD



No. 3, SHORT SQUARE



No. 4, SQUARE HEAD

In ordering Plow Bolts, please state what style heads are desired, and whether right or left hand threads.

Price per Hundred

| Length. | 5/16 Inch. | 3/8 Inch. | 7/16 Inch. | ½ Inch. | 9/16 Inch. | 5/8 Inch. |
|---|---|---|---|---|---|---|
| 1½ Inch | $1.70 | $2.00 | $2.60 | $3.50 | $4.50 | $5.70 |
| 1¾ " | 1.80 | 2.10 | 2.75 | 3.70 | 4.75 | 6.00 |
| 1½ " | 1.90 | 2.20 | 2.90 | 3.90 | 5.00 | 6.30 |
| 2 " | 2.00 | 2.30 | 3.05 | 4.10 | 5.25 | 6.60 |
| 2¼ " | 2.10 | 2.40 | 3.20 | 4 30 | 5.50 | 6.90 |
| 2½ " | 2.20 | 2.50 | 3.35 | 4.50 | 5.75 | 7.20 |
| 2¾ " | 2.30 | 2.60 | 3.50 | 4.70 | 6.00 | 7.50 |
| 3 " | 2.40 | 2.70 | 3.65 | 4.90 | 6.25 | 7.80 |
| 3¼ " | 2.50 | 2.80 | 3.80 | 5.10 | 6.50 | 8.10 |
| 3½ " | 2.60 | 2.90 | 3.95 | 5.30 | 6.75 | 8.40 |
| 3¾ " | 2.70 | 3.00 | 4.10 | 5.50 | 7.00 | 8.70 |
| 4 " | 2.80 | 3.10 | 4.25 | 5.70 | 7.25 | 9.00 |

# TIRE BOLTS

**Price per Hundred.**



| ⅛ & 3/16 Inch. | | ¼ Inch. | | 5/16 Inch. | | ⅜ Inch. | |
|---|---|---|---|---|---|---|---|
| 1 Inch | $0.60 | 1 Inch | $0.80 | 1 Inch | $1.10 | 1 Inch | $2.20 |
| 1¼ " | 0.60 | 1¼ " | 0.80 | 1¼ " | 1.10 | 1¼ " | 2.20 |
| 1½ " | 0.60 | 1½ " | 0.80 | 1½ " | 1.10 | 1½ " | 2.20 |
| 1¾ " | 0.65 | 1¾ " | 0.85 | 1¾ " | 1.10 | 1¾ " | 2.20 |
| 2 " | 0.70 | 2 " | 0.90 | 2 " | 1.17 | 2 " | 2.20 |
| 2¼ " | 0.75 | 2¼ " | 0.95 | 2¼ " | 1.24 | 2¼ " | 2.30 |
| 2½ " | 0.80 | 2½ " | 1.00 | 2½ " | 1.31 | 2½ " | 2.40 |
| 2¾ " | 0.85 | 2¾ " | 1.05 | 2¾ " | 1.38 | 2¾ " | 2.50 |
| 3 " | 0.90 | 3 " | 1.10 | 3 " | 1.45 | 3 " | 2.60 |
| 3¼ " | 0.95 | 3¼ " | 1.15 | 3¼ " | 1.52 | 3¼ " | 2.70 |
| 3½ " | 1.00 | 3½ " | 1.20 | 3½ " | 1.59 | 3½ " | 2.80 |
| 3¾ " | 1.05 | 3¾ " | 1.25 | 3¾ " | 1.66 | 3¾ " | 2.90 |
| 4 " | 1.10 | 4 " | 1.30 | 4 " | 1.73 | 4 " | 3.00 |
| 4¼ " | 1.15 | 4¼ " | 1.35 | 4¼ " | 1.80 | 4¼ " | 3.10 |
| 4½ " | 1.20 | 4½ " | 1.40 | 4½ " | 1.87 | 4½ " | 3.20 |
| 4¾ " | 1.25 | 4¾ " | 1.45 | 4¾ " | 1.94 | 4¾ " | 3.30 |
| 5 " | 1.30 | 5 " | 1.50 | 5 " | 2.01 | 5 " | 3.40 |
| 5½ " | 1.40 | 5½ " | 1.60 | 5½ " | 2.15 | 5½ " | 3.60 |
| 6 " | 1.50 | 6 " | 1.70 | 6 " | 2.29 | 6 " | 3.80 |

## SLEIGH SHOE BOLTS

**Price per Hundred**



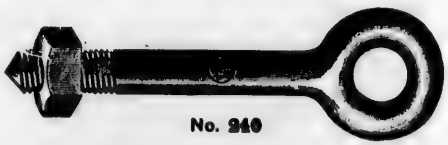
| Length. | 3/16 & ¼ Inch. | 5/16 Inch. | ⅜ Inch. | 7/16 Inch. | ½ Inch. | 5/8 Inch. |
|---|---|---|---|---|---|---|
| 1½ Inch | $1.90 | | | | | |
| 1¾ " | 2.00 | 2.70 | | | | |
| 2 " | 2.15 | 2.85 | | | | |
| 2½ " | 2.25 | 3.05 | 5.00 | 7.40 | 9.00 | 13.40 |
| 3 " | 2.50 | 3.35 | 5.40 | 7.80 | 9.50 | 14.20 |
| 3½ " | 2.75 | 3.65 | 5.80 | 8.20 | 10.00 | 15.00 |
| 4 " | 3.00 | 3.95 | 6.20 | 8.60 | 10.50 | 15.80 |
| 4½ " | 3.25 | 4.25 | 6.60 | 9.00 | 11.00 | 16.60 |
| 5 " | | 4.55 | 7.00 | 9.40 | 11.50 | 17.40 |
| 5½ " | | 4.90 | 7.40 | 9.80 | 12.00 | 18.20 |
| 6 " | | 5.20 | 7.80 | 10.20 | 12.50 | 19.00 |
| 6½ " | | 5.55 | 8.20 | 10.60 | 13.00 | 19.80 |
| 7 " | | 5.85 | 8.60 | 11.00 | 13.50 | 20.60 |
| 7½ " | | 6.20 | 9.00 | 11.40 | 14.00 | 21.40 |
| 8 " | | 6.50 | 9.40 | 11.80 | 14.50 | 22.20 |
| | | 6.85 | 9.80 | 12.20 | 15.00 | 23.00 |

## SCREW EYE BOLTS



No. 239

## NUT EYE BOLTS



No. 240

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Diameter of Iron | ¼ | 5/16 | ⅜ | 7/16 | ½ | ⅝ | ¾ | ⅞ | 1 | inch. |
| Diameter of Eye | ⅝ | 11/16 | ¾ | 13/16 | ⅞ | 1 | 1⅛ | 1¼ | 1½ | " |
| Length | 2 | 2¼ | 2½ | 2¾ | 3½ | 4 | 4½ | 5 | 6 | " |
| No. 239—Screw Eye Bolts, Plain, per doz. | $1.10 | 1.30 | 1.50 | 1.90 | 2.25 | 2.95 | 5.30 | 7.75 | 9.00 | |
| " 239G " " " Galvanized " | 1.20 | 1.40 | 1.60 | 2.00 | 2.40 | 3.20 | 5.80 | 8.50 | 10.00 | |
| " 240—Nut Eye Bolts, Plain " | 1.20 | 1.40 | 1.60 | 2.10 | 2.40 | 3.20 | 5.80 | 8.00 | 10.00 | |
| " 240G " " " Galvanized " | 1.40 | 1.60 | 1.80 | 2.30 | 2.60 | 3.60 | 6.20 | 9.00 | 11.00 | |

# STOVE BOLTS

With Forged Nuts.





## FLAT HEAD

5/32, 3/16 and 7/32 Inch

| Length | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 | 2 1/4 | 2 1/2 | 2 3/4 | 3 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Price ..... per hundred | $0.60 | 0.60 | 0.60 | 0.65 | 0.65 | 0.70 | 0.75 | 0.80 | 0.85 | 0.90 | 0.95 | 1.00 | 1.05 | |

1/4 Inch

| Length | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 | 2 1/4 | 2 1/2 | 2 3/4 | 3 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Price ..... per hundred | $0.65 | 0.65 | 0.65 | 0.70 | 0.70 | 0.75 | 0.80 | 0.85 | 0.90 | 0.95 | 1.00 | 1.05 | 1.10 | |

5/16 Inch

| Length | 3/4 | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 | 2 1/4 | 2 1/2 | 2 3/4 | 3 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Price ..... per hundred | $1.05 | 1.10 | 1.15 | 1.20 | 1.25 | 1.30 | 1.35 | 1.40 | 1.45 | 1.50 | |

3/8 Inch

| Length | 3/4 | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 | 2 1/4 | 2 1/2 | 2 3/4 | 3 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Price ..... per hundred | $2.20 | 2.20 | 2.20 | 2.20 | 2.20 | 2.20 | 2.30 | 2.40 | 2.50 | 2.60 | |

## ROUND HEAD

5/32, 3/16 and 7/32 Inch

| Length | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1 1/8 | 1 1/4 | 1 1/2 | 1 3/4 | 2 | 2 1/4 | 2 1/2 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Price ..... per hundred | $0.85 | 0.85 | 0.85 | 0.90 | 0.90 | 0.95 | 0.95 | 1.00 | 1.05 | 1.10 | 1.15 | 1.20 | |

1/4 Inch

| Length | 5/8 | 3/4 | 7/8 | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 | 2 1/4 | 2 1/2 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Price ..... per hundred | $0.95 | 0.95 | 1.00 | 1.00 | 1.05 | 1.10 | 1.15 | 1.20 | 1.25 | 1.30 | |

## SINK BOLTS

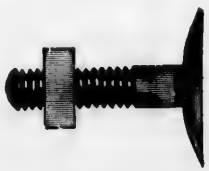
With Two Nuts.



1/4 Inch

| Length | 1 | 1 1/4 | 1 1/2 | 1 3/4 | 2 | 2 1/4 | 2 1/2 | 2 3/4 | 3 | 3 1/2 | 4 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Price ..... per hundred | $1.30 | 1.35 | 1.40 | 1.45 | 1.50 | 1.55 | 1.60 | 1.65 | 1.70 | 1.80 | 1.90 | |

## ELEVATOR BOLTS



For Bolting Buckets to Grain Elevators.

WROUGHT IRON

| | | |
|---|---|---|
| 3/4 and 1 inch long by 1/16 or 1/4 inch diameter ..... | per hundred | $2.20 |
| 1 " 1 1/4 " " 1/16 inch diameter ..... | " | 3.00 |



# IRON MACHINE SCREWS



## COUNTERSUNK AND ROUND HEAD

Price per Gross

| Numbers. | 2 to 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 24 |
|---|---|---|---|---|---|---|---|---|---|---|
| Length, ¼ Inch | $0.23 | $0.24 | $0.27 | $0.32 | ..... | ..... | ..... | ..... | ..... | ..... |
| " 3/8 " | 0.23 | 0.24 | 0 27 | 0.32 | $0.38 | $0.45 | $0.55 | ..... | ..... | ..... |
| " ½ " | 0.23 | 0.24 | 0.27 | 0.34 | 0.38 | 0.45 | 0.55 | $0.60 | $0.65 | $0.75 |
| " 5/8 " | 0.26 | 0.29 | 0.34 | 0.38 | 0.43 | 0.48 | 0.60 | 0.65 | 0.75 | 0.90 |
| " ¾ " | 0.30 | 0.34 | 0.38 | 0.42 | 0.48 | 0.53 | 0.60 | 0.67 | 0.80 | 0.95 |
| " 7/8 " | ..... | 0.37 | 0.42 | 0.47 | 0.53 | 0.59 | 0.67 | 0.75 | 0.85 | 1.05 |
| " 1 " | ..... | 0.41 | 0.46 | 0.51 | 0.58 | 0 65 | 0.73 | 0.81 | 0.91 | 1.15 |
| " 1¼ " | ..... | ..... | 0.55 | 0.60 | 0.68 | 0.76 | 0.85 | 0.95 | 1.05 | 1.35 |
| " 1½ " | ..... | ..... | ..... | 0.70 | 0.80 | 0.90 | 1.00 | 1.15 | 1.25 | 1.60 |

## BRASS MACHINE SCREWS

### COUNTERSUNK AND ROUND HEAD

Price per Gross

| Numbers. | 2 to 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 24 |
|---|---|---|---|---|---|---|---|---|---|---|
| Length, ¼ Inch | $0.29 | $0.33 | $0.45 | $0.60 | ..... | ..... | ..... | ..... | ..... | ..... |
| " 3/8 " | 0.29 | 0.33 | 0.45 | 0.60 | $0.75 | $1.00 | $1.25 | ..... | ..... | ..... |
| " ½ " | 0.32 | 0.36 | 0.50 | 0.65 | 0.85 | 1.10 | 1.35 | $1.75 | $2.10 | $3.15 |
| " 5/8 " | 0.40 | 0.45 | 0.55 | 0.75 | 0.95 | 1.20 | 1.50 | 1.90 | 2.50 | 3.50 |
| " ¾ " | 0.50 | 0.55 | 0.65 | 0.85 | 1.05 | 1.30 | 1.65 | 2.05 | 2.75 | 3.75 |
| " 7/8 " | ..... | 0.65 | 0.75 | 1.00 | 1.20 | 1.45 | 1.80 | 2.20 | 2.85 | 4.00 |
| " 1 " | ..... | 0.75 | 0.90 | 1.10 | 1.35 | 1.60 | 1.95 | 2.35 | 3.10 | 4.75 |
| " 1¼ " | ..... | ..... | 1.10 | 1 40 | 1.60 | 1.90 | 2.25 | 2.65 | 3.75 | 5.30 |
| " 1½ " | ..... | ..... | ..... | 1.65 | 1.90 | 2.20 | 2 60 | 3.20 | 4.15 | 6.05 |

The table below gives sizes, in parts of an inch, of the different numbers of screws in the above lists:—

| No. | 2 | 3 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 16 | 18 | 20 | 24 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Size | 7/64 S | 7/64 L | 7/64 L | 7/64 L | 11/64 S | 11/64 L | 7/32 L | 1/4 S | 9/64 S | 7/32 S | 13/64 L | 11/64 L | 1/4 L inch. |
| No. of Threads to inch | 56 | 48 | 36 | 32 | 32 | 24 | 24 | 20 | 16 | 20 | 18 | 16 | 16 |
| Size of Drill for Tapping | 49 | 45 | 42 | 35 | 30 | 25 | 17 | 6 | 3 | 3 | 1/4 | 1/4 | 1/4 |

Letter S abbreviation for small; letter L for large.



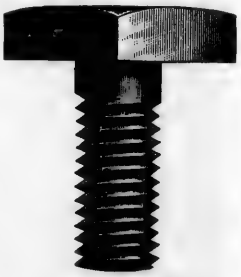
BOILER PATCH BOLT

# PATCH AND PLANER HEAD BOLTS

## BOILER PATCH BOLTS

Turned and Threaded. Price per 100.

| Diameter | ½ | 5/8 | ¾ | 7/8 | 1 | inch. |
|---|---|---|---|---|---|---|
| Length, 3/4 inch | $3.75 | 4.25 | .... | .... | ..... | |
| " 1 " | 4 00 | 4.50 | 6.00 | ..... | ..... | |
| " 1¼ " | 4.25 | 4.80 | 6.50 | 9.50 | 13.50 | |
| " 1½ " | .... | 5.10 | 6.80 | 9.85 | 14.00 | |
| " 2 " | .... | 5.50 | 7.25 | 10.25 | 14.75 | |



PLANER HEAD BOLT

## PLANER HEAD BOLTS

Without Nuts. Price per 100.

| | 7/8 | 1 | 1⅛ | 1⅛ | 1¼ inch. |
|---|---|---|---|---|---|
| Diameter of Head | | | | | |
| Length " | 1/16 | 1/16 | 1/8 | 1/8 | 1/16 " |
| Diameter of Screw | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 " |
| Length, 1 inch | $10.00 | ..... | ..... | ..... | ..... |
| " 1¼ " | 10.50 | 12.00 | 13.30 | 13.30 | 17.00 |
| " 1½ " | 10.50 | 12.25 | 14.00 | 14.00 | 17.50 |
| " 1¾ " | ..... | 12.45 | 14.80 | 14.80 | 18.00 |
| " 2 " | ..... | 13.75 | 15.70 | 15.70 | 19.00 |

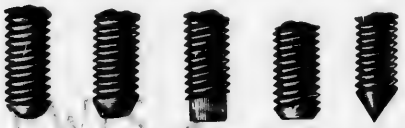
# CAP AND SET SCREWS

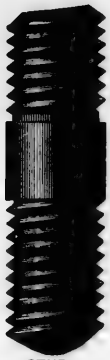

HEXAGON HEAD CAP SCREW


SQUARE HEAD CAP SCREW


SET SCREW

DIFFERENT KINDS OF SET SCREW POINTS


OVAL CUP SQUARE FLAT POINTED


STUD

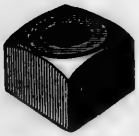
Price per Hundred

| Diameter of Screw. | | ¼ | 5/16 | ⅜ | 7/16 | ½ | 9/16 | ⅝ | ¾ | ⅞ | 1 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ¾ Inch. | Set | 2.00 | 2.20 | 2.50 | 2.90 | 3.40 | 4.25 | 5.00 | ..... | ..... | ..... |
| | Square Head Cap | 2.40 | 2.75 | 3.20 | 3.80 | 4.40 | 5.75 | ..... | ..... | ..... | ..... |
| | Hexagon Head Cap | 3.00 | 3 25 | 3.75 | 4.40 | 5.50 | 7.00 | ..... | ..... | ..... | ..... |
| 1 Inch. | Set | 2.15 | 2.35 | 2 65 | 3.10 | 3.60 | 4 25 | 5.00 | 7.00 | ..... | ..... |
| | Square Head Cap | 2.60 | 2.95 | 3.40 | 4 00 | 4.70 | 5.75 | 7.70 | ..... | ..... | ..... |
| | Hexagon Head Cap | 3.25 | 3.50 | 4.00 | 4.70 | 5.70 | 7.00 | 9.50 | ..... | ..... | ..... |
| 1¼ Inch. | Set | 2.30 | 2 50 | 2.80 | 3.30 | 3.80 | 4.50 | 5.25 | 7.00 | 11.30 | ..... |
| | Square Head Cap | 2.75 | 3.10 | 3.65 | 4.20 | 4.95 | 6.05 | 7.70 | 10.50 | ..... | ..... |
| | Hexagon Head Cap | 3.50 | 3.75 | 4.25 | 5.00 | 6.00 | 7.50 | 9.50 | 12.20 | ..... | ..... |
| | Studs | ..... | ..... | 3.35 | 4.05 | 4.40 | 5.10 | ..... | ..... | ..... | ..... |
| 1½ Inch. | Set | 2.45 | 2.65 | 2.95 | 3.50 | 4.00 | 4.75 | 5.50 | 7.50 | 11.30 | 14.90 |
| | Square Head Cap | 2.90 | 3.30 | 3.85 | 4.45 | 5.25 | 6.35 | 8.25 | 10.50 | 14.00 | ..... |
| | Hexagon Head Cap | 3.75 | 4.00 | 4.50 | 5.30 | 6.30 | 8.00 | 10.00 | 12.20 | 16.00 | ..... |
| | Studs | ..... | ..... | 3 50 | 4.20 | 4.60 | 5.30 | 6.10 | ..... | ..... | ..... |
| 1¾ Inch. | Set | 2.60 | 2.80 | 3.10 | 3.70 | 4.20 | 5.00 | 5.75 | 8.00 | 12.00 | 15.90 |
| | Square Head Cap | 3.05 | 3.50 | 4.10 | 4.70 | 5 55 | 6.65 | 8.80 | 11.10 | 14.80 | 18.00 |
| | Hexagon Head Cap | 4.00 | 4.25 | 4.75 | 5.60 | 6.60 | 8.55 | 10.60 | 12.80 | 16.60 | 21.20 |
| | Studs | ..... | ..... | 3.65 | 4.35 | 4.80 | 5.50 | 6.30 | ..... | ..... | ..... |
| 2 Inch. | Set | 2.80 | 3.00 | 3.30 | 3.95 | 4.45 | 5.30 | 6.05 | 8.60 | 12.90 | 17.00 |
| | Square Head Cap | 3.25 | 3.70 | 4.35 | 4.95 | 5.90 | 7.05 | 9.40 | 11.80 | 15.70 | 19.00 |
| | Hexagon Head Cap | 4.25 | 4.60 | 5.05 | 5.95 | 7.00 | 9.10 | 11.20 | 13.40 | 17.20 | 22.30 |
| | Studs | ..... | ..... | 3.80 | 4.50 | 5.00 | 5.70 | 6.50 | 8.80 | ..... | ..... |
| 2¼ Inch. | Set | ..... | 3.25 | 3.55 | 4.25 | 4.75 | 5 65 | 6.40 | 9.30 | 13.80 | 18.40 |
| | Square Head Cap | ..... | 4.00 | 4.65 | 5.25 | 6.30 | 7.55 | 10.10 | 12.60 | 16.70 | 20.20 |
| | Hexagon Head Cap | ..... | 5.00 | 5.40 | 6.35 | 7 50 | 9.70 | 11.90 | 14.10 | 17.90 | 23.60 |
| | Studs | ..... | ..... | 3.95 | 4.65 | 5.20 | 5.90 | 6.70 | 9.10 | ..... | ..... |
| 2½ Inch. | Set | ..... | ..... | 3.85 | 4.60 | 5.10 | 6.05 | 6.80 | 10.00 | 14.80 | 19.80 |
| | Square Head Cap | ..... | ..... | 5.00 | 5.60 | 6.75 | 8.15 | 10.90 | 13.50 | 17.80 | 21.50 |
| | Hexagon Head Cap | ..... | ..... | 5.80 | 6 80 | 8.00 | 10.40 | 12.70 | 14.90 | 18.80 | 25.10 |
| | Studs | ..... | ..... | 4.10 | 4.80 | 5.40 | 6.10 | 6.90 | 9.40 | 12.00 | ..... |
| 2¾ Inch. | Set | ..... | ..... | ..... | 5.00 | 5.50 | 6 50 | 7.25 | 10.80 | 15.90 | 21.40 |
| | Square Head Cap | ..... | ..... | ..... | 6.00 | 7.25 | 8.85 | 11.80 | 14.60 | 19.10 | 23.10 |
| | Hexagon Head Cap | ..... | ..... | ..... | 7.30 | 8.60 | 11.20 | 13.60 | 15.90 | 20.00 | 26.90 |
| | Studs | ..... | ..... | 4.25 | 4.95 | 5.60 | 6.30 | 7.10 | 9.70 | 12.50 | ..... |
| 3 Inch. | Set | ..... | ..... | ..... | ..... | 5.95 | 7.00 | 7.75 | 11.70 | 17.10 | 23.00 |
| | Square Head Cap | ..... | ..... | ..... | ..... | 7.80 | 9.65 | 12.80 | 15.90 | 20.60 | 25.00 |
| | Hexagon Head Cap | ..... | ..... | ..... | ..... | 9.30 | 12.10 | 14 70 | 17.00 | 21.80 | 29.00 |
| | Studs | ..... | ..... | 4.40 | 5.10 | 5.80 | 6.50 | 7.30 | 10.00 | 13.00 | 17.00 |
| No. Threads to Inch | | 20 | 18 | 16 | 14 | 12 | 12 | 11 | 10 | 9 | 8 |

**Headless Set (or Grub) Screws**, Slotted, Threaded over all, use Set Screw list.

In ordering Set Screws, state the kind of point you wish. Case Hardened Set Screws with Cup Points only are kept in stock, others made to order. Shoulder Screws and all other special styles made to order.

# NUTS



HOT PRESSED

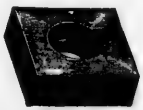


## MANUFACTURERS' STANDARD LIST

| SQUARE | | | | | | | HEXAGON | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Order Number. | Size Square. | Thickness | Diameter of Hole. | Size of Bolt. | Price per 100 lbs. | Average Number in 100 lbs. | Order Number. | Size Square. | Thickness. | Diameter of Hole. | Size of Bolt. | Price per 100 lbs. | Average Number in 100 lbs. |
| 1* | 1/8 | 1/16 | 5/32 | 1/8 | $30.00 | 14700 | 35* | 1/4 | 1/4 | 7/32 | 1/4 | $20.00 | 8700 |
| 2* | 1/4 | 1/4 | 3/16 | 1/4 | 18.00 | 7500 | 36* | 5/16 | 5/16 | 1/4 | 5/16 | 16.00 | 4200 |
| 3* | 5/16 | 1/8 | 7/32 | 1/4 | 11.50 | 4000 | 37* | 3/8 | 3/8 | 11/32 | 3/8 | 13.00 | 2600 |
| 4* | 3/8 | 3/16 | 11/32 | 3/8 | 10.00 | 2200 | 38* | 7/16 | 7/16 | 3/8 | 7/16 | 12.00 | 2280 |
| 5* | 7/16 | 1/16 | 3/8 | 7/16 | 9.00 | 2100 | 39* | 1/2 | 1/2 | 3/8 | 1/2 | 11.20 | 1590 |
| 6* | 7/16 | 1/4 | 7/16 | 1/4 | 9.00 | 1350 | 40 | 7/16 | 1/16 | 11/32 | 1/2 | 11.20 | 1700 |
| 7* | 1/2 | 1/16 | 1/2 | 1/2 | 9.00 | 1080 | 41* | 1/2 | 1/2 | 7/16 | 1/2 | 11.20 | 1450 |
| 8* | 1/2 | 1/4 | 1/2 | 1/2 | 8.70 | 1000 | 42* | 1/2 | 1/2 | 1/2 | 1/2 | 10.50 | 1100 |
| 9* | 1/2 | 3/8 | 1/2 | 1/2 | 8.70 | 1020 | 43* | 1/2 | 3/8 | 1/2 | 1/2 | 10.50 | 1220 |
| 10 | 1/2 | 1/16 | 1/2 | 1/2 | 8.50 | 660 | 44 | 1/2 | 1/4 | 1/2 | 1/2 | 10.30 | 700 |
| 11* | 1/2 | 3/8 | 1/2 | 1/2 | 8.50 | 590 | 45* | 1/2 | 3/8 | 1/2 | 1/2 | 10.30 | 650 |
| 12 | 1/2 | 1/2 | 1/2 | 1/2 | 8.30 | 450 | 46 | 1/2 | 1/2 | 1/2 | 1/2 | 9.80 | 550 |
| 13 | 1/2 | 1/2 | 11/32 | 1/2 | 8.30 | 390 | 47 | 1/2 | 1/2 | 1/2 | 1/2 | 9.80 | 525 |
| 14* | 1/2 | 1/2 | 11/32 | 1/2 | 8.30 | 325 | 48 | 1/2 | 1/2 | 11/32 | 1/2 | 10.30 | 500 |
| 15 | 1/2 | 1/2 | 11/32 | 1/2 | 8.00 | 285 | 49* | 1/2 | 1/2 | 11/32 | 1/2 | 9.80 | 400 |
| 16* | 1/2 | 1/2 | 11/32 | 1/2 | 8.00 | 190 | 50 | 1/2 | 1/2 | 11/32 | 1/2 | 9.50 | 300 |
| 17 | 1/2 | 1/2 | 11/32 | 1/2 | 8.00 | 150 | 51 | 1/2 | 1/2 | 11/32 | 1/2 | 9.50 | 270 |
| 18* | 1/2 | 1 | 1/2 | 1 | 8.00 | 145 | 52* | 1/2 | 1/2 | 11/32 | 1/2 | 9.50 | 240 |
| 19 | 1/2 | 1/2 | 1/2 | 1 | 8.00 | 130 | 53 | 1/2 | 1 | 11/32 | 1/2 | 9.50 | 210 |
| 20 | 2 | 1 | 1/2 | 1 | 8.00 | 110 | 54* | 1/2 | 1 | 1/2 | 1 | 9.50 | 180 |
| 21* | 2 | 1/2 | 1/2 | 1/2 | 8.00 | 95 | 55 | 1/2 | 1/2 | 1/2 | 1 | 9.50 | 160 |
| 22 | 2/2 | 1/2 | 1/2 | 1/2 | 8.00 | 75 | 56* | 2 | 1/2 | 1/2 | 1/2 | 9.50 | 105 |
| 23* | 2/2 | 1/2 | 1/16 | 1/2 | 8.30 | 68 | 57* | 2/2 | 1/2 | 1/16 | 1/2 | 9.80 | 80 |
| 24* | 2/2 | 1/2 | 1/16 | 1/2 | 8.30 | 55 | 58* | 2/2 | 1/2 | 1/16 | 1/2 | 9.80 | 90 |
| 25* | 2/2 | 1/2 | 1/16 | 1/2 | 8.30 | 70 | 59 | 2/2 | 1/2 | 1/16 | 1/2 | 9.80 | 60 |
| 26 | 2/2 | 1/2 | 1/16 | 1/2 | 8.30 | 42 | 60* | 2/2 | 1/2 | 1/2 | 1/2 | 10.00 | 70 |
| 27* | 2/2 | 1/2 | 1/2 | 1/2 | 8.30 | 55 | 61 | 2/2 | 1/2 | 1/16 | 1/2 | 10.00 | 45 |
| 28 | 3 | 1/2 | 1/16 | 1/2 | 8.30 | 32 | 62 | 3 | 1/2 | 1/16 | 1/2 | 10.50 | 35 |
| 29 | 3/2 | 1/2 | 1/16 | 1/2 | 8.30 | 25 | 63* | 2/2 | 1/2 | 1/2 | 1/2 | 10.50 | 47 |
| 30* | 2/2 | 1/2 | 1/2 | 1/2 | 9.30 | 38 | 64 | 3/2 | 1/2 | 1/16 | 1/2 | 10.50 | 30 |
| 31 | 3/2 | 1/2 | 1/16 | 1/2 | 9.30 | 22 | 65 | 3/2 | 2 | 1/16 | 1/2 | 11.00 | 24 |
| 32 | 3/2 | 1/2 | 1/16 | 1/2 | 9.30 | 20 | 66* | 3/2 | 2 | 1/16 | 2 | 11.00 | 25 |
| 33* | 3/2 | 2 | 1/2 | 2 | 9.30 | 26 | | | | | | | |
| 34 | 4 | 2 | 1/16 | 2 | 9.30 | 15 | | | | | | | |

Those marked * are stock sizes; packed 100 lbs. in a box. Any sizes not enumerated in above list will be charged extra.

## MACHINE SCREW NUTS

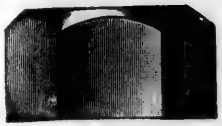


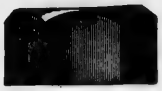
TAPPED

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Order Number | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 |
| For Machine Screws, Nos | 2 | 3 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 |
| Number of Threads to the inch | 56 | 48 | 36 | 32 | 32 | 24 | 24 | 20 | 16 | 18 |
| Price .....per hundred | $0.65 | 0.35 | 0.35 | 0.35 | 0.35 | 0.40 | 0.45 | 0.50 | 0.65 | 0.85 |

# HEXAGON NUTS, TAPPED

## WHITWORTH STANDARD





### TAPPED, FACED TOP AND BOTTOM, WITH BLACK SIDES

| Order Number | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Size of Hole | ¼ | 5/16 | ⅜ | 7/16 | ½ | ⅝ | ¾ | ⅞ | 1 | 1¼ | 1½ | inch. |
| Per hundred | $1.35 | 1.50 | 1.60 | 1.75 | 2.10 | 2.75 | 4.00 | 5.50 | 8.00 | 10.60 | 14.00 | |

### TAPPED, BRIGHT FINISHED ALL OVER

| Order Number | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Size of Hole | ¼ | 5/16 | ⅜ | 7/16 | ½ | ⅝ | ¾ | ⅞ | 1 | 1¼ | 1½ | 1¾ | 1¾ | 2 | inch. |
| Per hundred | $2.45 | 2.45 | 2.85 | 3.00 | 3.50 | 4.60 | 5.85 | 7.60 | 10.60 | 14.40 | 18.20 | 28.35 | 30.30 | 58.60 | |

### CASE HARDENED AND FINISHED

| Order Number | 102 | 103 | 104 | 105 | 106 | |
|---|---|---|---|---|---|---|
| Size of Hole | ½ | ⅝ | ¾ | ⅞ | 1 | inch. |
| Per hundred | $4.20 | 5.90 | 8.40 | 11.30 | 14.25 | |

**When ordering Nuts, please do so by giving the Order Number.**

## TURNED WASHERS



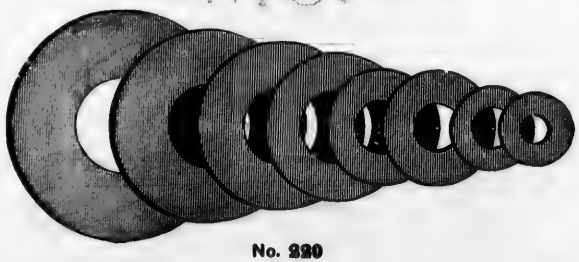
**No. 221**

**Polished, Crampered Edges.**

| Size of Hole | ¼ | 5/16 | ⅜ | 7/16 | ½ | ⅝ | ¾ | ⅞ | 1 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|
| Per hundred | $1.50 | 1.75 | 2.00 | 2.25 | 2.50 | 3.00 | 3.50 | 4.00 | 4.50 | |

## IRON WASHERS

### MANUFACTURERS' STANDARD LIST



**No. 220**

| Size of Hole | 5/16 | ¼ | 5/16 | ⅜ | 7/16 | ½ | 9/16 | ⅝ | 11/16 | ¾ | 13/16 | ⅞ | 15/16 | 1 1/16 | 1 1/8 | 1 1/4 | 1 5/16 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diameter | ⅞ | 1 | 1⅛ | 1¼ | 1 | 1½ | 1½ | 1⅝ | 1½ | 1¾ | 1⅞ | 2 | 2¼ | 2¼ | 2½ | 2¼ | 2¾ | " |
| Thickness ..... Gauge No. | 18 | 18 | 16 | 14 | 14 | 13 | 12 | 12 | 10 | 10 | 10 | 9 | 9 | 9 | 9 | 9 | 9 | |
| Size of Bolt | 5/16 | 5/16 | ¼ | 5/16 | ⅜ | 7/16 | ½ | ⅝ | ¾ | ⅞ | ⅞ | 1 | ⅛ | 1 | 1⅛ | 1⅛ | 1¼ | " |
| Per lb. | $0.20 | 0.18 | 0.15 | 0.13 | 0.10 | 0.10 | 0.09 | 0.09 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | |

# WASHERS AND RIVETS

## LOCK WASHERS

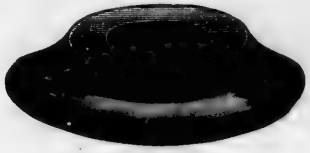


No. 222

| Size of Bolt | ¼ | 5/16 | ⅜ | 7/16 | ½ | ⅝ | ¾ | inch. |
|---|---|---|---|---|---|---|---|---|
| Per 100..... | $1.65 | 1.75 | 2.00 | 2.25 | 2.50 | 2.75 | 3.00 | |

| Size of Bolt | ⅞ | 1 | 1⅛ | 1¼ | 1⅜ | 1¾ | 2 | inch. |
|---|---|---|---|---|---|---|---|---|
| Per 100..... | $3 25 | 4.15 | 5.00 | 6.25 | 10.00 | 15.00 | 20.00 | |

## CAST IRON WASHERS



No. 223

| Size of Bolt... | ⅜ | ½ | ⅝ | ¾ | ⅞ | inch. |
|---|---|---|---|---|---|---|
| Per lb..... | $0.06 | 0.06 | 0.05 | 0.05 | 0.05 | |

| Size..... | 1 | 1⅛ | 1¼ | 1½ | 2 | inch. |
|---|---|---|---|---|---|---|
| Per lb..... | $0.05 | 0.05 | 0.05 | 0.05 | 0.05 | |

## IRON RIVETS IN BULK




## LIST FOR ROUND, FLAT, WAGGON BOX, TRUSS OR OTHER STYLE HEADS, IN QUANTITIES

Price per Pound

| Diameter. | Length. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ½ and longer | 15/32 | 7/16 | 13/32 | ⅜ | 11/32 | 5/16 | 9/32 | ¼ | 7/32 | 3/16 | 5/32 | ⅛ | 3/32 |
| 7/8 inch | 11½ | 11½ | 11½ | | | | | | | | | | | |
| ¾ " | 12 | 12 | 12 | | | | | | | | | | | |
| 11/16 " | 12 | 12 | 12 | | | | | | | | | | | |
| 5/8 " | 12½ | 12½ | 12½ | 13 | 13 | | | | | | | | | |
| No. 1 | 12½ | 12½ | 12½ | 13 | 13 | 13 | | | | | | | | |
| " 2 | 12½ | 12½ | 12½ | 13 | 13 | 13 | 14 | | | | | | | |
| " 3 | 13 | 13 | 13 | 14 | 14 | 14 | 15 | 15 | 15 | 16 | 16 | | | |
| ½ inch | 13 | 13 | 13 | 14 | 14 | 14 | 15 | 15 | 15 | 16 | 16 | | | |
| No. 4 | 13 | 14 | 14 | 15 | 15 | 15 | 16 | 16 | 16 | 17 | 17 | 18 | | |
| " 5 | 14 | 15 | 16 | 16 | 16 | 17 | 17 | 18 | 18 | 19 | 19 | 20 | 20 | 21 |
| " 6 | 14 | 15 | 16 | 16 | 17 | 17 | 18 | 18 | 19 | 20 | 22 | 23 | 24 | 25 |
| 7/16 inch | 14 | 15 | 16 | 16 | 17 | 17 | 18 | 18 | 19 | 20 | 22 | 23 | 24 | 25 |
| No. 7 | 15 | 16 | 17 | 17 | 17 | 17 | 18 | 18 | 19 | 20 | 22 | 23 | 24 | 25 |
| " 8 | 16 | 16 | 17 | 17 | 18 | 18 | 19 | 19 | 19 | 21 | 22 | 23 | 24 | 25 |
| " 9 | 18 | 19 | 19 | 20 | 20 | 21 | 21 | 21 | 21 | 23 | 25 | 27 | 29 | 30 |
| " 10 | 19 | 20 | 21 | 22 | 23 | 25 | 27 | 28 | 28 | 30 | 33 | 35 | 37 | 38 |
| " 11 | 20 | 22 | 24 | 26 | 27 | 28 | 30 | 31 | 31 | 33 | 37 | 40 | 42 | 45 |
| " 12 | 21 | 24 | 26 | 28 | 29 | 30 | 32 | 34 | 35 | 36 | 41 | 45 | 50 | 55 |
| " 13 | 25 | 27 | 30 | 33 | 34 | 35 | 37 | 39 | 40 | 41 | 45 | 50 | 55 | 60 |
| " 14 | 27 | 30 | 35 | 38 | 40 | 45 | 50 | 52 | 54 | 56 | 58 | 60 | 63 | 65 |

Rivets made from wire smaller than No. 14, all lengths, 70 cents per pound.

Tinning.....per pound extra $0.06

# BOILER, BRIDGE AND SHIP RIVETS

## STANDARD HEADS

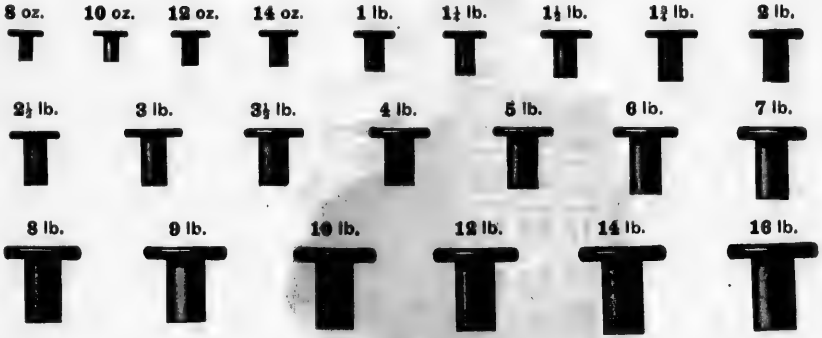


Prices will be quoted on application

## BLACK AND TINNED IRON RIVETS

### FLAT HEADS

Put up in packages of 1000 each.

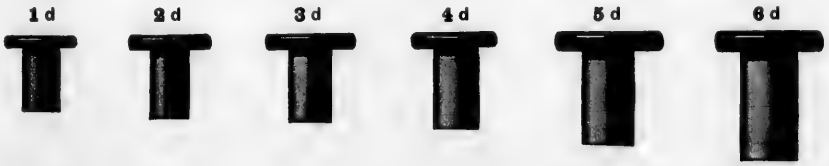



| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Weight | **8** | **10** | **12** | **14** oz. | **1** | **1¼** | **1½** | **1¾** | **2** | **2½** | **3** | lbs. |
| Black ..... per thousand | $0.20 | 0.22 | 0.24 | 0.26 | 0.27 | 0.29 | 0.32 | 0.36 | 0.40 | 0.47 | 0.53 | |
| Tinned ..... " | 0.24 | 0.25 | 0.28 | 0.30 | 0.33 | 0.37 | 0.41 | 0.47 | 0.52 | 0.63 | 0.72 | |
| Weight | **3½** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **12** | **14** | **16** | lbs. |
| Black ..... per thousand | $0.59 | 0.64 | 0.75 | 0.90 | 1.05 | 1.20 | 1.27 | 1.40 | 1.70 | 1.90 | 2.25 | |
| Tinned ..... " | 0.80 | 0.89 | 1.05 | 1.26 | 1.50 | 1.70 | 1.80 | 2.00 | 2.40 | 2.75 | 3.10 | |

## COOPERS' RIVETS

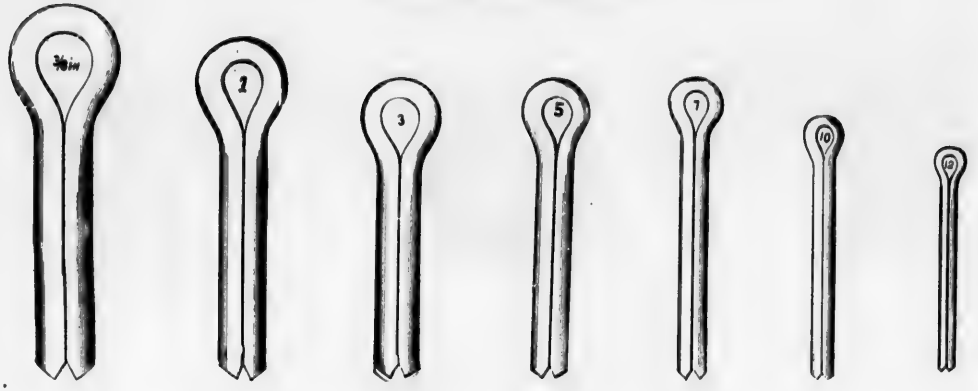
### FLAT HEAD

In bulk.




| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Nos. | **1 d** | **2 d** | **3 d** | **4 d** | **5 d** | **6 d** | |
| Length | 1¼ | ½ | 1½ | ⅞ | ⅝ | ¾ | inch. |
| Diameter | 4 W.G. | 3 W.G. | 3 W.G. | 2 W.G. | 1/7 | 1/4 | |
| Price ..... per lb. | $0.13 | 0.13 | 0.12½ | 0.12½ | 0.12 | 0.12 | |

# COTTER PINS




2½ Inch | 2½ Inch | 2 Inch | 2 Inch | 2 Inch | 1¾ Inch | 1½ Inch

**Price per Gross**

| NUMBERS. | ⅜ | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length, 1 inch | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | $0.28 | $0.27 | $0.25 | $0.24 | $0.22 |
| " 1¼ " | ..... | ..... | ..... | ..... | ..... | ..... | ..... | $0.33 | 0.30 | 0.28 | 0.27 | 0.25 | 0.24 |
| " 1½ " | ..... | $0.80 | $0.73 | $0.67 | $0.58 | $0.50 | $0.42 | 0.37 | 0.33 | 0.32 | 0.30 | 0.28 | 0.27 |
| " 1¾ " | ..... | 0.90 | 0.80 | 0.73 | 0.65 | 0.55 | 0.45 | 0.40 | 0.37 | 0.35 | 0.33 | 0.32 | 0.30 |
| " 2 " | ..... | 1.00 | 0.90 | 0.80 | 0 70 | 0.60 | 0.48 | 0.44 | 0.40 | 0.38 | 0.37 | 0.35 | 0.33 |
| " 2¼ " | ..... | 1.10 | 1.00 | 0.87 | 0.75 | 0.65 | 0.53 | 0.47 | 0.44 | 0.42 | 0.40 | 0.38 | 0 37 |
| " 2½ " | ..... | $2.20 | 1.20 | 1.10 | 0.93 | 0.80 | 0.70 | 0.58 | 0.50 | 0.47 | 0.45 | 0.44 | 0.42 | 0.40 |
| " 3 " | ..... | 2.47 | 1.40 | 1.30 | 1.10 | 0.93 | 0.80 | 0.68 | 0.60 | 0.55 | 0.52 | 0.50 | 0.48 | 0.47 |
| " 3½ " | ..... | 2.73 | 1.60 | 1.50 | 1.30 | 1.10 | 0.93 | 0.78 | 0.70 | 0.65 | 0.60 | 0.57 | 0.55 | 0.53 |

## THRESHING MACHINE TEETH

Drop Forged from Best Soft Steel.



No. 1 | No. 2 | No. 3

**Prices and all particulars on application.**

# AXLE WASHERS



## NUT AND COLLAR WASHERS

### LEATHER

**FOR NUT**

| Nos. | 2 | 15 | 28 | 41 | 55 | 81 | 134 | |
|---|---|---|---|---|---|---|---|---|
| Size | ⅜ | ½ | ⅝ | 1 | 1¼ | 1½ | 1¾ | inch. |
| Per 100 | $1.75 | 1.75 | 1.75 | 1.75 | 2.25 | 2.50 | 2.75 | |

**FOR COLLAR**

| Nos. | 42 | 68 | 69 | 94 | 121 | 147 | 188 | |
|---|---|---|---|---|---|---|---|---|
| Size | ⅜ | ½ | ⅝ | 1 | 1¼ | 1½ | 1¾ | inch. |
| Per 100 | $2.25 | 2.25 | 2.50 | 2.50 | 2.50 | 2.75 | 3.50 | |

### VULCANIZED

**FOR NUT**

| Nos. | 2 | 15 | 28 | 41 | 55 | 81 | 134 | |
|---|---|---|---|---|---|---|---|---|
| Size | ⅜ | ½ | ⅝ | 1 | 1¼ | 1½ | 1¾ | inch. |
| Per 100 | $1.75 | 1.75 | 1.75 | 1.75 | 2.25 | 2.50 | 2.75 | |

**FOR COLLAR**

| Nos. | 42 | 68 | 69 | 94 | 121 | 147 | 188 | |
|---|---|---|---|---|---|---|---|---|
| Size | ⅜ | ½ | ⅝ | 1 | 1¼ | 1½ | 1¾ | inch. |
| Per 100 | $2.25 | 2.25 | 2.50 | 2.50 | 2.50 | 2.75 | 3.50 | |

50 in a box.

## AXLE GREASE

| | | | |
|---|---|---|---|
| No. 1—Butler's "X L" Axle Grease, Dark | per gross | | $10.00 |
| " 2— " "X X" " Light | " | | 10.50 |
| " 3—Royal " Dark | " | | 10.50 |
| " 4— " " Light | " | | 11.00 |
| " 5—Peerless " | " | | 13.00 |

## ANTI-RATTLERS

DANDY



JOHNSON'S
Pat.: U. S. A., Feb. 27, '94
Canada, March 13, '95.




WIRE

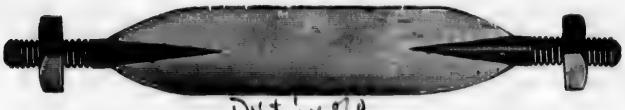


| | | | |
|---|---|---|---|
| No. 1—Dandy Anti-Rattlers, Cast Steel | per gross pairs | | $12.00 |
| " 2—Johnson's " No. 1 for Axles ⅜, 1 and 1¼ inch | " | " | 16.00 |
| " 3—Wire " | " | " | 6.00 |

One dozen pair in a box.

# AXLE CLIPS

## BUGGY CLIPS

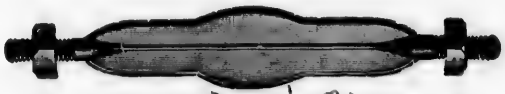


Norway Iron, Bevelled Edges, $\frac{3}{16}$ inch End, $\frac{5}{8}$ inch wide.

| Nos. | 00 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | |
|---|---|---|---|---|---|---|---|---|---|
| Length of Flat Part | 2½ | 2⅝ | 3¼ | 3⅝ | 4¼ | 4⅝ | 5¼ | 6 | inch. |
| Per dozen | $0.70 | 0.70 | 0.70 | 0.75 | 0.78 | 0.97 | 1.20 | 1.50 | |

Four dozen in a box.

## CUTTER CLIPS



Norway Iron, $\frac{1}{4}$ inch End, $\frac{5}{8}$ inch wide.

| Nos | 0 | 1 | 2 | 3 | |
|---|---|---|---|---|---|
| Length of Flat Part | 2 | 2½ | 3 | 3½ | inch. |
| Per dozen | $1.00 | 1.00 | 1.00 | 1.00 | |

Four dozen in a box.

## SPRING BAR CLIPS



Norway Iron, $\frac{1}{16}$ inch End, $\frac{5}{8}$ inch wide.

| Nos. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | |
|---|---|---|---|---|---|---|---|---|
| Length of Centre | 4½ | 4⅝ | 5¼ | 5⅝ | 6 | 7 | 7⅜ | inch. |
| Per dozen | $1.00 | 1.15 | 1.22 | 1.30 | 1.45 | 1.65 | 1.85 | |

Four dozen in a box.

## CLIP YOKES



For Axles $\frac{7}{8}$ to 1½ inch.

$\frac{7}{16}$ inch Holes ..... per lb. $0.12

10 lbs. in a box.

## FELLOE PLATES



Sizes $\frac{7}{8}$ to 2 inch.

Per lb. ..... $0.10

5 lbs. in a box.

# CLIPS

## CLIP KING BOLTS

Finished.



| Nos | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| Size at Collar | ¼ | 5/16 | ⅜ | ⅜ inch. |
| Per dozen | $4.00 | 4.00 | 4.50 | 5.00 |

## HALF ROUND BUGGY SADDLE CLIPS

Made from Norway Iron.



### FOR 1¼ INCH SPRING

| Nos | 00 | 0½ | 2 |
|---|---|---|---|
| Length, flat part | 2 | 2½ | 3 inch. |
| Per dozen sets | $5.00 | 5.00 | 5.00 |

### FOR 1½ INCH SPRING

| Nos | 10 | 11 | 12 |
|---|---|---|---|
| Length, flat part | 3½ | 4½ | 4½ inch. |
| Per dozen sets | $5.00 | 5.00 | 5.00 |

One dozen sets in a box

## SHAFT COUPLINGS

Finished.



### LIGHT

| Size | ⅞ | 1 inch. |
|---|---|---|
| Per dozen pairs | $8.00 | 8.00 |

### HEAVY

| Size | 1 | 1⅛ | 1¼ | 1½ inch. |
|---|---|---|---|---|
| Per dozen pairs | $9.00 | 10.00 | 11.00 | 12.00 |

## POLE EYES



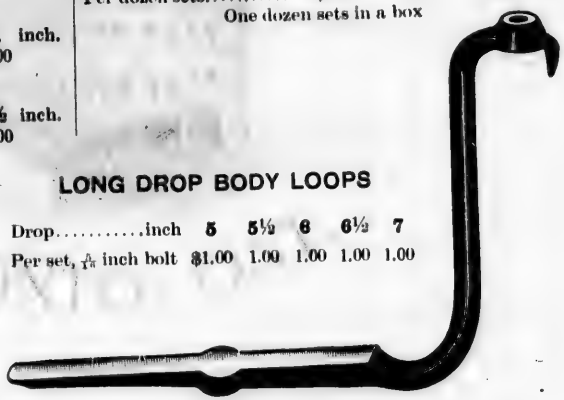
### BLACK

| Size | ⅞ | 1 | 1⅛ | 1¼ inch. |
|---|---|---|---|---|
| Per dozen pairs | $6.50 | 6.50 | 6.50 | 8.00 |

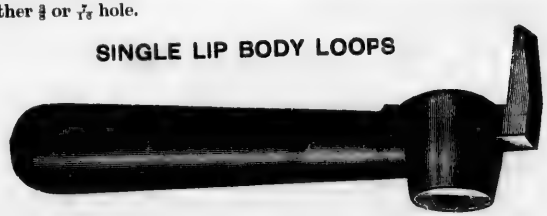
In ordering say whether ⅜ or 7/16 hole.

## LONG DROP BODY LOOPS

| Drop.....inch | 5 | 5½ | 6 | 6½ | 7 |
|---|---|---|---|---|---|
| Per set, 7/16 inch bolt | $1.00 | 1.00 | 1.00 | 1.00 | 1.00 |



## SINGLE LIP BODY LOOPS



No. 2—For 7/16 inch Bolt.....per doz. $1.00

# CARRIAGE STEP PADS

## WROUGHT IRON



SQUARE PATTERN

No. 1—3 x 3½ inch..per doz. pairs $3.15
" 2—4 x 4½ " .. " " " 3.50
" 3—4½ x 4 " .. " " " 4.40



STEP SHANKS

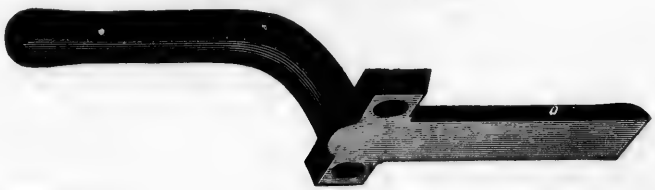
Not Drilled.
Per dozen pairs.... $2.00



ROUND PATTERN

5 inch..... per doz. pairs $4.40

## SLEIGH KNEE BRACES



Sizes ⅝, ¾ and ⅞ inch between holes..... per single doz. 1.00

## OFF SETS



Sizes $\frac{7}{16}$ inch..... per doz. pieces 1.00
" ½ " ..... " " 1.10

# MALLEABLE IRONS

## SINGLE TREE HOOKS



No. **120**, IN PAIRS, RIGHT AND LEFT

| No. **120** | A | B | C | E | |
|---|---|---|---|---|---|
| Diam. Ferrule inside small end | 1 | 1⅛ | 1¼ | 1½ | inch. |
| Per lb | | | | | $.... |



No. **130**

No. **130**—Diam. Ferrule inside small end ..... 1⅜ inch.
Per lb ..... $....

## WHIFFLETREE FERRULES



No. **5**, CLOSED END

| No. **5** | A | B | C | D | |
|---|---|---|---|---|---|
| Diam. inside large end | ¼ | ⅜ | 1 | 1⅛ | inch. |
| Per lb | | | | | $.... |

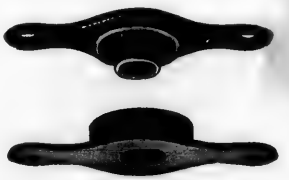


No. **160**, WITH RINGS

| No. **160** | A | B | C | D | |
|---|---|---|---|---|---|
| Diam. Ferrule | 1⅜ | 1½ | 1⅝ | 1¾ | inch. |
| " Rings | 1¾ | 1⅝ | 1¾ | 2 | " |
| Per lb. | | | | | $.... |

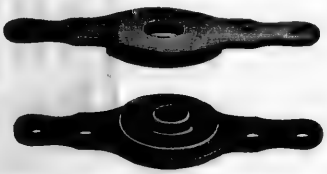
## WHIFFLETREE COUPLINGS

In Pairs.



No. **690**

| No. **690**—High Pattern | B | |
|---|---|---|
| Width | 1¼ | inch. |
| Length | 3¼ | " |
| Bolt | ⅜ | " |
| Per lb | $.... | |



No. **695**

| No. **695** | A | C | E | G | |
|---|---|---|---|---|---|
| Width | 1⅜ | 1⅜ | 2⅛ | 2½ | inch. |
| Length | 3¾ | 4½ | 5⅛ | 5¾ | " |
| Bolt | ⅜ | ⅜ | ½ | ½ | " |
| Per lb | | | | | $.... |

## SINGLE TREE TONGUES



No. **35**

| No. **35** | A | B | |
|---|---|---|---|
| Shank | ⅞ | ⅝ | inch. |
| Length | 2¾ | 3¼ | " |
| Per lb | | $.... | |



No. **70**

| No. **70** | A | B | |
|---|---|---|---|
| Shank | ⅝ | ⅞ | inch. |
| Length | 3 | 3½ | " |
| Per lb | | $.... | |



No. **75**

| No. **75** | | |
|---|---|---|
| Shank | ⅝ | inch. |
| Length | 3½ | " |
| Per lb | $.... | |

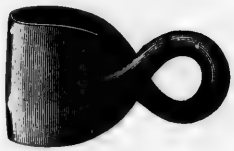
# MALLEABLE IRONS

## WHIFFLETREE CENTRE IRONS



No. 182

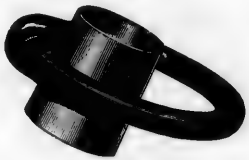
| No | 182 | |
|---|---|---|
| Round Whiffletree | 1⅛ | inch. |
| Length | 4 | " |
| Per lb | $.... | |



No. 190

| No. 190 | A | B |
|---|---|---|
| Oval Whiffletree | 2⅜x1⅛ | 2½x1⅜ inch. |
| Width | 2¼ | 2⅜ " |
| Length | 4½ | 4⅝ " |
| Per lb | $.... | .... |

## NECK YOKE FERRULES



No. 180

Oval Ring in Eye, Solid Loop.

| No | 180 | |
|---|---|---|
| Diameter | 1½ | inch. |
| Per lb | $.... | |

## NECK YOKE SPREADER CLEVISES



No. 183

⅝ Holes.

| No. 183 | A | B |
|---|---|---|
| Width inside | 1¼ | 1½ inch. |
| Length " | 3⅜ | 4½ " |
| Per lb | $.... | .... |

## END CLEVISES



No. 2806

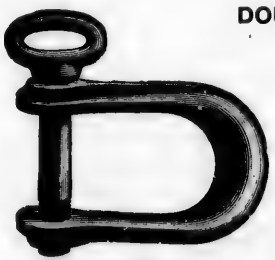
| No | 2806 | |
|---|---|---|
| Inside Width | ¾ | inch. |
| Entire Length | 3 | " |
| Per lb | $.... | |



No. 2820

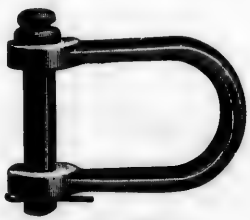
| No | 2820 | |
|---|---|---|
| Inside Width | ⅝ | inch. |
| Entire Length | 4 | " |
| Per lb | $.... | |

## DOUBLE TREE CLEVISES



No. 480

| No | 480 | |
|---|---|---|
| Inside Width | 2 | inch. |
| Entire Length | 4½ | " |
| Per lb | $.... | |



No. 380

| No | 380 | |
|---|---|---|
| Inside Width | 1⅛ | inch. |
| Entire Length | 4 | " |
| Per lb | $.... | |

# MALLEABLE IRONS

## THUMB NUTS



No. 1405

| No. 1405 | AA | A | B | C |
|---|---|---|---|---|
| Hole | $\frac{5}{16}$ | $\frac{1}{4}$ | $\frac{5}{16}$ | $\frac{3}{8}$ inch. |
| Per lb | $8$.... | .... | .... | .... |

Holes Cored Straight.

## BOX ROD NUTS



No. 1490

| No. 1490 | B |
|---|---|
| Hole | $\frac{3}{8}$ inch. |
| Length | $4\frac{1}{2}$ " |
| Per lb | $8$.... |

## CHECK LOOPS



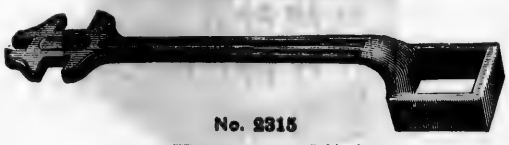
No. 2000



No. 2005

| No. 2000 | B | D | E | F | 2005B |
|---|---|---|---|---|---|
| Loop | 1 | $1\frac{1}{2}$ | $1\frac{1}{2}$ | $1\frac{3}{4}$ | $2\frac{3}{4}$ inch. |
| Length | $2\frac{1}{4}$ | $2\frac{3}{4}$ | 3 | $3\frac{1}{4}$ | $4\frac{1}{2}$ " |
| Per lb | | | | | $8$.... |

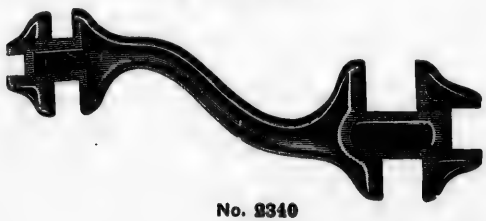
## CARRIAGE WRENCHES



No. 2315

| No. 2315 | C | D | E | F | G |
|---|---|---|---|---|---|
| Axle Nut | 1 | $1\frac{1}{8}$ | $1\frac{1}{4}$ | $1\frac{3}{8}$ | $1\frac{1}{2}$ inch. |
| Opening | $\frac{1}{2}$ $\frac{5}{8}$ $\frac{3}{4}$ | $\frac{1}{2}$ $\frac{5}{8}$ $\frac{3}{4}$ | $\frac{1}{2}$ $\frac{5}{8}$ $\frac{3}{4}$ | $\frac{1}{2}$ $\frac{5}{8}$ $\frac{3}{4}$ | $\frac{1}{2}$ $\frac{5}{8}$ $\frac{3}{4}$ " |
| Length | $9\frac{1}{2}$ | $9\frac{1}{2}$ | 10 | $10\frac{1}{2}$ | $10\frac{1}{2}$ " |
| Per lb | | | | | $8$.... |

## S WRENCHES



No. 2340

| No. 2340 | C | A |
|---|---|---|
| Openings | $\frac{5}{16}$ $\frac{3}{8}$ $\frac{1}{2}$ and $\frac{3}{4}$ $\frac{7}{8}$ 1 | $\frac{1}{8}$ $\frac{5}{8}$ $\frac{3}{4}$ and $\frac{7}{8}$ 1 $1\frac{1}{4}$ inch. |
| Length | 9 | 11 " |
| Per lb | | $8$.... |

# HORSE SHOES



**No. 3, FRONT**
**(MEDIUM)**
**Full Size.**

**Made in all sizes from Nos. 0 to 7 inclusive.**

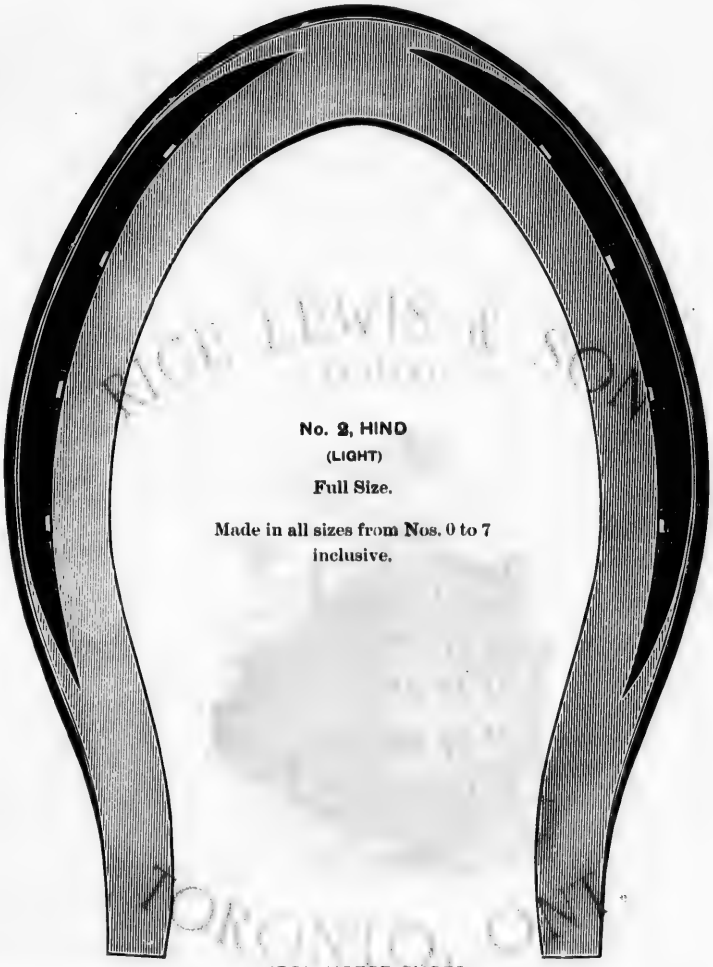
### Weights of Iron Horse Shoes

| Nos | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | |
|---|---|---|---|---|---|---|---|---|---|
| Medium, Front | 13 | 17 | 20 | 25 | 28 | 36 | 39 | 46 | ounces each. |
| Light " | 12 | 14½ | 17½ | 21 | 25 | 29½ | 38 | 42 | " |
| Snow " | .. | 12 | 14 | 17 | 21 | 25 | 28 | .. | " |
| Medium, Hind | 11 | 13 | 17 | 21 | 25 | 28 | 33 | 38 | " |
| Light " | 10 | 12 | 15 | 18 | 21 | 25 | 31 | 34 | " |
| Snow " | .. | 11 | 12 | 15 | 18 | 20 | 24 | .. | " |

### Weights of Steel Horse Shoes

| Nos | 0 | 1 | 2 | 3 | 4 | 5 | |
|---|---|---|---|---|---|---|---|
| Light, Front | .. | 12½ | 16 | 18½ | 23½ | 27½ | ounces each. |
| Featherweight, Front | 10 | 12 | 14 | 17 | 22 | 25 | " |
| Light, Hind | .. | 10½ | 13½ | 16½ | 20 | 25 | " |
| Featherweight, Hind | 8 | 9 | 10 | 12 | 15 | 19 | " |

# HORSE SHOES



**No. 2, HIND**
**(LIGHT)**
**Full Size.**

**Made in all sizes from Nos. 0 to 7 inclusive.**

### IRON HORSE SHOES

Light, Medium or Heavy Patterns ..... per 100 lbs. $....

Winter or Snow Shoes, 25c. per 100 lbs. extra.

### STEEL HORSE SHOES

| | | |
|---|---|---|
| Light, Nos. **1, 2, 3, 4 and 5** | per 100 lbs. | .... |
| Featherweight, Nos. **0, 1 and 2** | " | .... |
| " Nos. **3, 4 and 5** | " | .... |
| " Assorted, Nos. **0** to **5** | " | .... |

### "TOE WEIGHT" STEEL HORSE SHOES

| Nos. | 1 | 2 | 3 | 4 | |
|---|---|---|---|---|---|
| Average Weight ..... each | 11 | 14 | 17 | 20 | ounces. |
| Per keg, 100 lbs | $.... | .... | .... | .... | |

In kegs of 100 lbs.

When ordering please state pattern required and if "All Front" or "All Hind" or "Assorted."

# TOE CALKS




## SHARP CALKS

| Nos | 0 | 1 | 2 | 3 | 4 | 5 | |
|---|---|---|---|---|---|---|---|
| Length | 1½ | 1⅝ | 2 | 2¼ | 2½ | 2⅝ | inch. |
| Sizes | 9/16 x 3/8 | 9/16 x 3/8 | 3/4 x 1/2 | 3/4 x 1/2 | 1 1/8 x 9/16 | 1 1/8 x 9/16 | " |
| Number to the pound | 20 | 17 | 9 | 7 | 5 | 4 | |

Price, 25 lbs. in bulk, or 24 lbs. in 4 lb. packages ..... per box $2.50

## BLUNT CALKS

| Nos | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | |
|---|---|---|---|---|---|---|---|---|---|
| Length | 1½ | 1½ | 1¾ | 2 | 2¼ | 2½ | 2⅝ | 3 | inch. |
| Sizes | 3/4 x 7/16 | 1/2 x 9/16 | 9/16 x 3/8 | 5/8 x 3/8 | 3/4 x 3/8 | 3/4 x 3/8 | 7/8 x 7/16 | 7/8 x 7/16 | " |
| Number to the pound | 21 | 16 | 10 | 8 | 6 | 5 | 4 | 3 | |

Price, 25 lbs. in bulk, or 24 lbs. in 4 lb. packages ..... per box $2.00

## HORSE SHOE NAILS

Pointed and Finished, made from best Norway Iron.




"C." BRAND



"P. B." BRAND



OVAL HEAD



COUNTERSUNK HEAD

| Size Nos | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lengths | 1½ | 1⅝ | 1¾ | 1⅞ | 2 | 2⅛ | 2¼ | 2⅜ | 2½ | 2⅝ | 2¾ | 2⅞ | 3 | 3⅛ | inch. |
| Price per pound | $3.00 | 2.00 | 1.00 | 0.50 | 0.30 | 0.27 | 0.24 | 0.23 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | |

Nos. 1 to 3 in 1 lb. papers, Nos. 4 to 14 in 5 lb. papers, in boxes of 25 lbs. each.

Extra for 1 lb. packages:—½ cent per lb. net

# IRON WOOD SCREWS

## DISCOUNT PRICE LIST

List of January 1, 1891. Price per Gross

| Size. Inch. | No. | List Price. | Discount. 50 | 55 | 60 | 65 | 70 | 75 |
|---|---|---|---|---|---|---|---|---|
| ¼ | 0 | 40 | 20 | 18 | 16 | 14 | 12 | 10 |
| | 1 | 40 | 20 | 18 | 16 | 14 | 12 | 10 |
| | 2 | 40 | 20 | 18 | 16 | 14 | 12 | 10 |
| 5/16 | 1 | 40 | 20 | 18 | 16 | 14 | 12 | 10 |
| | 2 | 40 | 20 | 18 | 16 | 14 | 12 | 10 |
| | 3 | 40 | 20 | 18 | 16 | 14 | 12 | 10 |
| | 4 | 40 | 20 | 18 | 16 | 14 | 12 | 10 |
| | 5 | 40 | 20 | 18 | 16 | 14 | 12 | 10 |
| | 6 | 41 | 21 | 19 | 17 | 15 | 13 | 11 |
| | 7 | 48 | 24 | 22 | 20 | 17 | 15 | 12 |
| | 8 | 55 | 28 | 25 | 22 | 20 | 17 | 14 |
| 3/8 | 2 | 40 | 20 | 18 | 16 | 14 | 12 | 10 |
| | 3 | 40 | 20 | 18 | 16 | 14 | 12 | 10 |
| | 4 | 40 | 20 | 18 | 16 | 14 | 12 | 10 |
| | 5 | 41 | 21 | 19 | 17 | 15 | 13 | 11 |
| | 6 | 45 | 23 | 21 | 18 | 16 | 14 | 12 |
| | 7 | 52 | 26 | 24 | 21 | 19 | 16 | 13 |
| | 8 | 59 | 30 | 27 | 24 | 21 | 18 | 15 |
| | 9 | 66 | 33 | 30 | 27 | 24 | 20 | 17 |
| | 10 | 73 | 37 | 33 | 30 | 26 | 22 | 19 |
| 7/16 | 2 | 40 | 20 | 18 | 16 | 14 | 12 | 10 |
| | 3 | 40 | 20 | 18 | 16 | 14 | 12 | 10 |
| | 4 | 40 | 20 | 18 | 16 | 14 | 12 | 10 |
| | 5 | 43 | 22 | 20 | 18 | 16 | 13 | 11 |
| | 6 | 49 | 25 | 23 | 20 | 18 | 15 | 13 |
| | 7 | 56 | 28 | 26 | 23 | 20 | 17 | 14 |
| | 8 | 63 | 32 | 29 | 26 | 23 | 19 | 16 |
| | 9 | 70 | 35 | 32 | 28 | 25 | 21 | 18 |
| | 10 | 77 | 39 | 35 | 31 | 27 | 24 | 20 |
| | 11 | 84 | 42 | 38 | 34 | 30 | 26 | 21 |
| | 12 | 91 | 46 | 41 | 37 | 32 | 28 | 23 |
| ½ | 4 | 41 | 21 | 19 | 17 | 15 | 13 | 11 |
| | 5 | 46 | 23 | 21 | 19 | 17 | 14 | 12 |
| | 6 | 53 | 27 | 24 | 22 | 19 | 16 | 14 |
| | 7 | 60 | 30 | 27 | 24 | 21 | 18 | 15 |
| | 8 | 67 | 34 | 31 | 27 | 24 | 21 | 17 |
| | 9 | 74 | 37 | 34 | 30 | 26 | 23 | 19 |
| | 10 | 81 | 41 | 37 | 33 | 29 | 25 | 21 |
| | 11 | 88 | 44 | 40 | 36 | 31 | 27 | 22 |
| | 12 | 95 | 48 | 43 | 38 | 34 | 29 | 24 |
| | 13 | 105 | 53 | 48 | 42 | 37 | 32 | 27 |
| | 14 | 120 | 60 | 54 | 48 | 42 | 36 | 30 |
| | 15 | 135 | 68 | 61 | 54 | 48 | 41 | 34 |
| | 16 | 155 | 78 | 70 | 62 | 55 | 47 | 39 |
| 9/16 | 5 | 52 | 26 | 24 | 21 | 19 | 16 | 13 |
| | 6 | 59 | 30 | 27 | 24 | 21 | 18 | 15 |
| | 7 | 66 | 33 | 30 | 27 | 24 | 20 | 17 |
| | 8 | 73 | 37 | 33 | 30 | 26 | 22 | 19 |
| | 9 | 80 | 40 | 36 | 32 | 28 | 24 | 20 |
| | 10 | 87 | 44 | 40 | 35 | 31 | 27 | 22 |
| | 11 | 94 | 47 | 43 | 38 | 33 | 29 | 24 |
| | 12 | 100 | 50 | 45 | 40 | 35 | 30 | 25 |
| | 13 | 115 | 58 | 52 | 46 | 41 | 35 | 29 |
| | 14 | 130 | 65 | 59 | 52 | 46 | 39 | 33 |
| | 15 | 150 | 75 | 68 | 60 | 53 | 45 | 38 |
| | 16 | 170 | 85 | 77 | 68 | 60 | 51 | 43 |
| 1 | 5 | 59 | 30 | 27 | 24 | 21 | 18 | 15 |
| | 6 | 66 | 33 | 30 | 27 | 24 | 20 | 17 |
| | 7 | 73 | 37 | 33 | 30 | 26 | 22 | 19 |
| | 8 | 80 | 40 | 36 | 32 | 28 | 24 | 20 |
| | 9 | 87 | 44 | 40 | 35 | 31 | 27 | 22 |
| | 10 | 94 | 47 | 43 | 38 | 33 | 29 | 24 |

| Size. Inch. | No. | List Price. | Discount. 50 | 55 | 60 | 65 | 70 | 75 |
|---|---|---|---|---|---|---|---|---|
| 1 | 11 | 100 | 50 | 45 | 40 | 35 | 30 | 25 |
| | 12 | 110 | 55 | 50 | 44 | 39 | 33 | 28 |
| | 13 | 125 | 63 | 57 | 50 | 44 | 38 | 32 |
| | 14 | 140 | 70 | 63 | 56 | 49 | 42 | 35 |
| | 15 | 160 | 80 | 72 | 64 | 56 | 48 | 40 |
| | 16 | 180 | 90 | 81 | 72 | 63 | 54 | 45 |
| | 17 | 200 | 100 | 90 | 80 | 70 | 60 | 50 |
| | 18 | 220 | 110 | 99 | 88 | 77 | 66 | 55 |
| | 20 | 270 | 135 | 122 | 108 | 95 | 81 | 68 |
| 1¼ | 7 | 80 | 40 | 36 | 32 | 28 | 24 | 20 |
| | 8 | 87 | 44 | 40 | 35 | 31 | 27 | 22 |
| | 9 | 94 | 47 | 43 | 38 | 33 | 29 | 24 |
| | 10 | 100 | 50 | 45 | 40 | 35 | 30 | 25 |
| | 11 | 110 | 55 | 50 | 44 | 39 | 33 | 28 |
| | 12 | 120 | 60 | 54 | 48 | 42 | 36 | 30 |
| | 13 | 135 | 68 | 61 | 54 | 48 | 41 | 34 |
| | 14 | 155 | 78 | 70 | 62 | 55 | 47 | 39 |
| | 15 | 175 | 88 | 79 | 70 | 62 | 53 | 44 |
| | 16 | 195 | 98 | 88 | 78 | 69 | 59 | 49 |
| | 17 | 215 | 108 | 97 | 86 | 76 | 65 | 54 |
| | 18 | 235 | 118 | 106 | 94 | 83 | 71 | 59 |
| | 20 | 285 | 143 | 129 | 114 | 100 | 86 | 72 |
| 1½ | 8 | 94 | 47 | 43 | 38 | 33 | 29 | 24 |
| | 9 | 100 | 50 | 45 | 40 | 35 | 30 | 25 |
| | 10 | 110 | 55 | 50 | 44 | 39 | 33 | 28 |
| | 11 | 120 | 60 | 54 | 48 | 42 | 36 | 30 |
| | 12 | 130 | 65 | 59 | 52 | 46 | 39 | 33 |
| | 13 | 150 | 75 | 68 | 60 | 53 | 45 | 38 |
| | 14 | 170 | 85 | 77 | 68 | 60 | 51 | 43 |
| | 15 | 190 | 95 | 86 | 76 | 67 | 57 | 48 |
| | 16 | 210 | 105 | 95 | 84 | 74 | 63 | 53 |
| | 17 | 230 | 115 | 104 | 92 | 81 | 69 | 58 |
| | 18 | 250 | 125 | 113 | 100 | 88 | 75 | 63 |
| | 20 | 300 | 150 | 135 | 120 | 105 | 90 | 75 |
| 1¾ | 9 | 110 | 55 | 50 | 44 | 39 | 33 | 28 |
| | 10 | 120 | 60 | 54 | 48 | 42 | 36 | 30 |
| | 11 | 130 | 65 | 59 | 52 | 46 | 39 | 33 |
| | 12 | 145 | 73 | 66 | 58 | 51 | 44 | 37 |
| | 13 | 165 | 83 | 75 | 66 | 58 | 50 | 42 |
| | 14 | 185 | 93 | 84 | 74 | 65 | 56 | 47 |
| | 15 | 205 | 103 | 93 | 82 | 72 | 62 | 52 |
| | 16 | 225 | 113 | 102 | 90 | 79 | 68 | 57 |
| | 17 | 245 | 123 | 111 | 98 | 86 | 74 | 62 |
| | 18 | 270 | 135 | 122 | 108 | 95 | 81 | 68 |
| | 20 | 320 | 160 | 144 | 128 | 112 | 96 | 80 |
| | 22 | 375 | 188 | 169 | 150 | 132 | 113 | 94 |
| | 24 | 435 | 218 | 196 | 174 | 153 | 131 | 109 |
| 2 | 10 | 130 | 65 | 59 | 52 | 46 | 39 | 33 |
| | 11 | 140 | 70 | 63 | 56 | 49 | 42 | 35 |
| | 12 | 155 | 78 | 70 | 62 | 55 | 47 | 39 |
| | 13 | 180 | 90 | 81 | 72 | 63 | 54 | 45 |
| | 14 | 200 | 100 | 90 | 80 | 70 | 60 | 50 |
| | 15 | 220 | 110 | 99 | 88 | 77 | 66 | 55 |
| | 16 | 240 | 120 | 108 | 96 | 84 | 72 | 60 |
| | 17 | 260 | 130 | 117 | 104 | 91 | 78 | 65 |
| | 18 | 290 | 145 | 131 | 116 | 102 | 87 | 73 |
| | 20 | 340 | 170 | 153 | 136 | 119 | 102 | 85 |
| | 22 | 400 | 200 | 180 | 160 | 140 | 120 | 100 |
| | 24 | 455 | 228 | 205 | 182 | 160 | 137 | 114 |
| 2¼ | 11 | 150 | 75 | 68 | 60 | 53 | 45 | 38 |
| | 12 | 170 | 85 | 77 | 68 | 60 | 51 | 43 |
| | 13 | 190 | 95 | 86 | 76 | 67 | 57 | 48 |
| | 14 | 210 | 105 | 95 | 84 | 74 | 63 | 53 |

| Size. Inch. | No. | List Price. | Discount. 50 | 55 | 60 | 65 | 70 | 75 |
|---|---|---|---|---|---|---|---|---|
| 2¼ | 15 | 235 | 118 | 106 | 94 | 83 | 71 | 59 |
| | 16 | 260 | 130 | 117 | 104 | 91 | 78 | 65 |
| | 17 | 280 | 140 | 126 | 112 | 98 | 84 | 70 |
| | 18 | 305 | 153 | 138 | 122 | 107 | 92 | 77 |
| | 20 | 360 | 180 | 162 | 144 | 126 | 108 | 90 |
| | 22 | 420 | 210 | 189 | 168 | 147 | 126 | 105 |
| | 24 | 480 | 240 | 216 | 192 | 168 | 144 | 120 |
| 2½ | 12 | 185 | 93 | 84 | 74 | 65 | 56 | 47 |
| | 13 | 205 | 103 | 93 | 82 | 72 | 62 | 52 |
| | 14 | 225 | 113 | 102 | 90 | 79 | 68 | 57 |
| | 15 | 255 | 128 | 115 | 102 | 90 | 77 | 64 |
| | 16 | 275 | 138 | 124 | 110 | 97 | 83 | 69 |
| | 17 | 300 | 150 | 135 | 120 | 105 | 90 | 75 |
| | 18 | 330 | 165 | 149 | 132 | 116 | 99 | 83 |
| | 20 | 385 | 193 | 174 | 154 | 135 | 116 | 97 |
| | 22 | 450 | 225 | 203 | 180 | 158 | 135 | 113 |
| | 24 | 510 | 255 | 230 | 204 | 179 | 153 | 128 |
| 2¾ | 13 | 225 | 113 | 102 | 90 | 79 | 68 | 57 |
| | 14 | 245 | 123 | 111 | 98 | 86 | 74 | 62 |
| | 15 | 270 | 135 | 122 | 108 | 95 | 81 | 68 |
| | 16 | 295 | 148 | 133 | 118 | 104 | 89 | 74 |
| | 17 | 325 | 163 | 147 | 130 | 114 | 98 | 82 |
| | 18 | 360 | 180 | 162 | 144 | 126 | 108 | 90 |
| | 20 | 425 | 213 | 192 | 170 | 149 | 128 | 107 |
| | 22 | 500 | 250 | 225 | 200 | 175 | 150 | 125 |
| | 24 | 560 | 280 | 252 | 224 | 196 | 168 | 140 |
| 3 | 14 | 265 | 133 | 120 | 106 | 93 | 80 | 67 |
| | 15 | 295 | 148 | 133 | 118 | 104 | 89 | 74 |
| | 16 | 330 | 165 | 149 | 132 | 116 | 99 | 83 |
| | 17 | 365 | 183 | 165 | 146 | 128 | 110 | 92 |
| | 18 | 405 | 203 | 183 | 162 | 142 | 122 | 102 |
| | 20 | 480 | 240 | 216 | 192 | 168 | 144 | 120 |
| | 22 | 555 | 278 | 250 | 222 | 195 | 167 | 139 |
| | 24 | 640 | 320 | 288 | 256 | 224 | 192 | 160 |
| | 26 | 750 | 375 | 338 | 300 | 263 | 225 | 188 |
| 3½ | 16 | 390 | 195 | 176 | 156 | 137 | 117 | 98 |
| | 17 | 430 | 215 | 194 | 172 | 151 | 129 | 108 |
| | 18 | 475 | 238 | 214 | 190 | 167 | 143 | 119 |
| | 20 | 555 | 278 | 250 | 222 | 195 | 167 | 139 |
| | 22 | 635 | 318 | 286 | 254 | 223 | 191 | 159 |
| | 24 | 730 | 365 | 329 | 292 | 256 | 219 | 183 |
| | 26 | 850 | 425 | 383 | 340 | 298 | 255 | 213 |
| 4 | 18 | 560 | 280 | 252 | 224 | 196 | 168 | 140 |
| | 20 | 640 | 320 | 288 | 256 | 224 | 192 | 160 |
| | 22 | 730 | 365 | 329 | 292 | 256 | 219 | 183 |
| | 24 | 840 | 420 | 378 | 336 | 294 | 252 | 210 |
| | 26 | 970 | 485 | 437 | 388 | 340 | 291 | 243 |
| 4½ | 18 | 660 | 330 | 297 | 264 | 231 | 198 | 165 |
| | 20 | 740 | 370 | 333 | 296 | 259 | 222 | 185 |
| | 22 | 845 | 423 | 381 | 338 | 296 | 254 | 212 |
| | 24 | 970 | 485 | 437 | 388 | 340 | 291 | 243 |
| | 26 | 1105 | 553 | 498 | 442 | 387 | 332 | 277 |
| 5 | 20 | 860 | 430 | 387 | 344 | 301 | 258 | 215 |
| | 22 | 975 | 488 | 439 | 390 | 342 | 293 | 244 |
| | 24 | 1105 | 553 | 498 | 442 | 387 | 332 | 277 |
| | 26 | 1260 | 630 | 567 | 504 | 441 | 378 | 315 |
| 6 | 24 | 1350 | 675 | 608 | 540 | 473 | 405 | 338 |
| | 26 | 1600 | 800 | 720 | 640 | 560 | 480 | 400 |
| | 28 | 1805 | 903 | 813 | 722 | 632 | 542 | 452 |
| | 30 | 2010 | 1005 | 905 | 804 | 704 | 603 | 503 |

# IRON WOOD SCREWS



List of January 1, 1891. **Price per Gross**

### ¼ Inch

| No. | | |
|---|---|---|
| No. | 0 | $0.40 |
| " | 1 | 0.40 |
| " | 2 | 0.40 |
| " | 3 | 0.40 |
| " | 4 | 0.40 |

### ⅜ Inch

| No. | | |
|---|---|---|
| No. | 0 | $0.40 |
| " | 1 | 0.40 |
| " | 2 | 0.40 |
| " | 3 | 0.40 |
| " | 4 | 0.40 |
| " | 5 | 0.40 |
| " | 6 | 0.41 |
| " | 7 | 0.48 |
| " | 8 | 0.55 |
| " | 9 | 0.62 |

### ½ Inch

| No. | | |
|---|---|---|
| No. | 1 | $0.40 |
| " | 2 | 0.40 |
| " | 3 | 0.40 |
| " | 4 | 0.40 |
| " | 5 | 0.41 |
| " | 6 | 0.45 |
| " | 7 | 0.52 |
| " | 8 | 0.59 |
| " | 9 | 0.66 |
| " | 10 | 0.73 |
| " | 11 | 0.80 |
| " | 12 | 0.87 |

### ⅝ Inch

| No. | | |
|---|---|---|
| No. | 1 | $0.40 |
| " | 2 | 0.40 |
| " | 3 | 0.40 |
| " | 4 | 0.40 |
| " | 5 | 0.43 |
| " | 6 | 0.49 |
| " | 7 | 0.56 |
| " | 8 | 0.63 |
| " | 9 | 0.70 |
| " | 10 | 0.77 |
| " | 11 | 0.84 |
| " | 12 | 0.91 |
| " | 13 | 0.98 |
| " | 14 | 1.10 |

### ¾ Inch

| No. | | |
|---|---|---|
| No. | 2 | $0.40 |
| " | 3 | 0.41 |
| " | 4 | 0.41 |
| " | 5 | 0.46 |
| " | 6 | 0.53 |
| " | 7 | 0.60 |
| " | 8 | 0.67 |
| " | 9 | 0.74 |
| " | 10 | 0.81 |
| " | 11 | 0.88 |
| " | 12 | 0.95 |
| " | 13 | 1.05 |
| " | 14 | 1.20 |
| " | 15 | 1.35 |
| " | 16 | 1.55 |

### ⅞ Inch

| No. | | |
|---|---|---|
| No. | 2 | $0.41 |
| " | 3 | 0.44 |
| " | 4 | 0.48 |
| " | 5 | 0.52 |
| " | 6 | 0.59 |
| " | 7 | 0.66 |
| " | 8 | 0.73 |
| " | 9 | 0.80 |
| " | 10 | 0.87 |
| " | 11 | 0.94 |
| " | 12 | 1.00 |
| " | 13 | 1.15 |
| " | 14 | 1.30 |
| " | 15 | 1.50 |
| " | 16 | 1.70 |

### 1 Inch

| No. | | |
|---|---|---|
| No. | 3 | $0.51 |
| " | 4 | 0.55 |
| " | 5 | 0.59 |
| " | 6 | 0.66 |
| " | 7 | 0.73 |
| " | 8 | 0.80 |
| " | 9 | 0.87 |
| " | 10 | 0.94 |
| " | 11 | 1.00 |
| " | 12 | 1.10 |
| " | 13 | 1.25 |
| " | 14 | 1.40 |
| " | 15 | 1.60 |
| " | 16 | 1.80 |
| " | 17 | 2.00 |
| " | 18 | 2.20 |
| " | 20 | 2.70 |

### 1¼ Inch

| No. | | |
|---|---|---|
| No. | 4 | $0.62 |
| " | 5 | 0.68 |
| " | 6 | 0.74 |
| " | 7 | 0.80 |
| " | 8 | 0.87 |
| " | 9 | 0.94 |
| " | 10 | 1.00 |
| " | 11 | 1.10 |
| " | 12 | 1.20 |
| " | 13 | 1.35 |
| " | 14 | 1.55 |
| " | 15 | 1.75 |
| " | 16 | 1.95 |
| " | 17 | 2.15 |
| " | 18 | 2.35 |
| " | 20 | 2.85 |
| " | 22 | 3.35 |
| " | 24 | 3.95 |

### 1½ Inch

| No. | | |
|---|---|---|
| No. | 4 | $0.70 |
| " | 5 | 0.76 |
| " | 6 | 0.82 |
| " | 7 | 0.88 |
| " | 8 | 0.94 |
| " | 9 | 1.00 |
| " | 10 | 1.10 |
| " | 11 | 1.20 |
| " | 12 | 1.30 |
| " | 13 | 1.50 |
| " | 14 | 1.70 |
| " | 15 | 1.90 |
| " | 16 | 2.10 |
| " | 17 | 2.30 |
| " | 18 | 2.50 |
| " | 20 | 3.00 |
| " | 22 | 3.50 |
| " | 24 | 4 15 |

### 1¾ Inch

| No. | | |
|---|---|---|
| No. | 6 | $0.92 |
| " | 7 | 0.98 |
| " | 8 | 1.05 |
| " | 9 | 1.10 |
| " | 10 | 1.20 |
| " | 11 | 1.30 |
| " | 12 | 1.45 |
| " | 13 | 1.65 |
| " | 14 | 1.85 |
| " | 15 | 2.05 |
| " | 16 | 2.25 |
| " | 17 | 2.45 |
| " | 18 | 2.70 |
| " | 20 | 3.20 |
| " | 22 | 3.75 |
| " | 24 | 4.35 |

### 2 Inch

| No. | | |
|---|---|---|
| No. | 6 | $1.05 |
| " | 7 | 1.10 |
| " | 8 | 1.20 |
| " | 9 | 1.25 |
| " | 10 | 1.30 |
| " | 11 | 1.40 |
| " | 12 | 1.55 |
| " | 13 | 1.80 |
| " | 14 | 2.00 |
| " | 15 | 2.20 |
| " | 16 | 2.40 |
| " | 17 | 2 60 |
| " | 18 | 2.90 |
| " | 20 | 3.40 |
| " | 22 | 4.00 |
| " | 24 | 4.55 |

### 2¼ Inch

| No. | | |
|---|---|---|
| No. | 8 | $1.30 |
| " | 9 | 1.35 |
| " | 10 | 1.45 |
| " | 11 | 1.50 |
| " | 12 | 1.70 |
| " | 13 | 1.90 |
| " | 14 | 2.10 |
| " | 15 | 2 35 |
| " | 16 | 2.60 |
| " | 17 | 2.80 |
| " | 18 | 3.05 |
| " | 20 | 3.60 |
| " | 22 | 4.20 |
| " | 24 | 4.80 |

### 2½ Inch

| No. | | |
|---|---|---|
| No. | 8 | $1.55 |
| " | 9 | 1.60 |
| " | 10 | 1.70 |
| " | 11 | 1.75 |
| " | 12 | 1.85 |
| " | 13 | 2.05 |
| " | 14 | 2.25 |
| " | 15 | 2.55 |
| " | 16 | 2.75 |
| " | 17 | 3.00 |
| " | 18 | 3.30 |
| " | 20 | 3.85 |
| " | 22 | 4.50 |
| " | 24 | 5.10 |

### 2¾ Inch

| No. | | |
|---|---|---|
| No. | 10 | $2.05 |
| " | 11 | 2.10 |
| " | 12 | 2.15 |
| " | 13 | 2.25 |
| " | 14 | 2.45 |
| " | 15 | 2.70 |
| " | 16 | 2.95 |
| " | 17 | 3.25 |
| " | 18 | 3.60 |
| " | 20 | 4.25 |
| " | 22 | 5.00 |
| " | 24 | 5.60 |

### 3 Inch

| No. | | |
|---|---|---|
| No. | 10 | $2.35 |
| " | 11 | 2.40 |
| " | 12 | 2.45 |
| " | 13 | 2.55 |
| " | 14 | 2.65 |
| " | 15 | 2.95 |
| " | 16 | 3.30 |
| " | 17 | 3.65 |
| " | 18 | 4.05 |
| " | 20 | 4.80 |
| " | 22 | 5.55 |
| " | 24 | 6.40 |
| " | 26 | 7.50 |

### 3½ Inch

| No. | | |
|---|---|---|
| No. | 10 | $3.30 |
| " | 11 | 3.40 |
| " | 12 | 3.50 |
| " | 13 | 3.60 |
| " | 14 | 3.70 |
| " | 15 | 3.80 |
| " | 16 | 3.90 |
| " | 17 | 4.30 |
| " | 18 | 4.75 |
| " | 20 | 5.55 |
| " | 22 | 6.35 |
| " | 24 | 7.30 |
| " | 26 | 8.50 |

### 4 Inch

| No. | | |
|---|---|---|
| No. | 12 | $4.50 |
| " | 14 | 4.60 |
| " | 16 | 4.75 |
| " | 18 | 5.60 |
| " | 20 | 6.40 |
| " | 22 | 7.30 |
| " | 24 | 8.40 |
| " | 26 | 9.70 |

### 4½ Inch

| No. | | |
|---|---|---|
| No. | 16 | $6.40 |
| " | 18 | 6.60 |
| " | 20 | 7.40 |
| " | 22 | 8.45 |
| " | 24 | 9.70 |
| " | 26 | 11.05 |

### 5 Inch

| No. | | |
|---|---|---|
| No. | 18 | $8.20 |
| " | 20 | 8.60 |
| " | 22 | 9.75 |
| " | 24 | 11.05 |
| " | 26 | 12.60 |
| " | 28 | 14.25 |

### 6 Inch

| No. | | |
|---|---|---|
| No. | 20 | $11.75 |
| " | 22 | 12.50 |
| " | 24 | 13.50 |
| " | 26 | 16.00 |
| " | 28 | 18.05 |
| " | 30 | 20.10 |

* The number of gross in a bundle is indicated by small figures on the side, divided by a star (*).

The following varieties of Iron Screws are invoiced from this list at varying discounts: Flat, Round, Plano, Fillister and Oval Head Screws, Dowel and Felloe Screws, Bright, Blued, Brassed, Bronzed, Japanned, Lacquered and Tinned Screws.

# BRASS WOOD SCREWS



Price per Gross

List of January 1, 1891

| ¼ Inch | | ⅜ Inch | | ½ Inch | | ⅝ Inch | | ¾ Inch | | ⅞ Inch | | 1 Inch | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | 0 $0.80 | No. | 0 $0.80 | No. | 1 $0.86 | No. | 2 $0.91 | No. | 2 $1.06 | No. | 2 $1.35 | No. | 3 $1.55 |
| " | 1 0.80 | " | 1 0.82 | " | 2 0.89 | " | 3 0.99 | " | 3 1.10 | " | 3 1.40 | " | 4 1.60 |
| " | 2 0.84 | " | 2 0.86 | " | 3 1.03 | " | 4 1.06 | " | 4 1.15 | " | 4 1.45 | " | 5 1.65 |
| " | 3 0.87 | " | 3 0.89 | " | 4 1.03 | " | 5 1.20 | " | 5 1.30 | " | 5 1.50 | " | 6 1.70 |
| " | 4 0.91 | " | 4 0.95 | " | 5 1.10 | " | 6 1.80 | " | 6 1.45 | " | 6 1.55 | " | 7 1.95 |
| | | " | 5 1.03 | " | 6 1.20 | " | 7 1.50 | " | 7 1.60 | " | 7 1.80 | " | 8 2.30 |
| | | " | 6 1.10 | " | 7 1.30 | " | 8 1.70 | " | 8 1.90 | " | 8 2.05 | " | 9 2.60 |
| | | " | 7 1.20 | " | 8 1.50 | " | 9 1.90 | " | 9 2.15 | " | 9 2.35 | " | 10 2.95 |
| | | | | " | 9 1.70 | " | 10 2.15 | " | 10 2.40 | " | 10 2.65 | " | 11 3.30 |
| | | | | " | 10 1.90 | " | 11 2.40 | " | 11 2.65 | " | 11 2.95 | " | 12 3.65 |
| | | | | | | " | 12 2.65 | " | 12 3.00 | " | 12 3.35 | " | 13 4.10 |
| | | | | | | | | " | 13 3.35 | " | 13 3.70 | " | 14 4.55 |
| | | | | | | | | " | 14 3.70 | " | 14 4.10 | " | 15 5.00 |
| | | | | | | | | " | 15 4.10 | " | 15 4.55 | " | 16 5.55 |
| | | | | | | | | " | 16 4.50 | " | 16 5.05 | " | 17 6.65 |

| 1¼ Inch | | 1½ Inch | | 1¾ Inch | | 2 Inch | | 2¼ Inch | | 2½ Inch | | 3 Inch | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | 3 $2.05 | No. | 4 $2.85 | No. | 6 $3.75 | No. | 6 $4.80 | No. | 8 $6.85 | No. | 10 $9.50 | No. | 10 $13.70 |
| " | 4 2.10 | " | 5 2.90 | " | 7 3.80 | " | 7 4.85 | " | 9 6.90 | " | 11 9.55 | " | 11 13.75 |
| " | 5 2.15 | " | 6 2.95 | " | 8 3.85 | " | 8 4.90 | " | 10 6.95 | " | 12 9.60 | " | 12 13.80 |
| " | 6 2.20 | " | 7 3.00 | " | 9 3.90 | " | 9 4.95 | " | 11 7.00 | " | 13 9.65 | " | 13 13.85 |
| " | 7 2.25 | " | 8 3.05 | " | 10 4.45 | " | 10 5.00 | " | 12 7.05 | " | 14 9.70 | " | 14 13.90 |
| " | 8 2.65 | " | 9 3.45 | " | 11 5.05 | " | 11 5.65 | " | 13 7.90 | " | 15 10.75 | " | 15 13.95 |
| " | 9 3.00 | " | 10 3.95 | " | 12 5.70 | " | 12 6.40 | " | 14 8.80 | " | 16 11.85 | " | 16 14.00 |
| " | 10 3.25 | " | 11 4.45 | " | 13 6.35 | " | 13 7.15 | " | 15 9.80 | " | 17 13.00 | " | 18 16.80 |
| " | 11 3.85 | " | 12 5.00 | " | 14 7.10 | " | 14 7.95 | " | 16 10.75 | " | 18 14.30 | " | 20 19.95 |
| " | 12 4.35 | " | 13 5.60 | " | 15 7.90 | " | 15 8.80 | " | 17 11.90 | " | 20 16.95 | " | 22 23.40 |
| " | 13 4.85 | " | 14 6.25 | " | 16 8.65 | " | 16 9.75 | " | 18 13.00 | " | 22 19.85 | " | 24 27.10 |
| " | 14 5.35 | " | 15 6.90 | " | 17 9.50 | " | 17 10.70 | " | 20 15.40 | " | 24 23.00 | " | 26 31 15 |
| " | 15 5.95 | " | 16 7.60 | " | 18 10.45 | " | 18 11.70 | " | 22 18.05 | | | | |
| " | 16 6.55 | " | 17 8.35 | " | 20 12.40 | " | 20 13.90 | | | | | | |
| " | 17 7.20 | " | 18 9.15 | " | 22 14.50 | " | 22 16.30 | | | | | | |
| " | 18 7.85 | " | 20 10.85 | " | 24 16.85 | " | 24 18.90 | | | | | | |
| " | 20 9.35 | | | | | | | | | | | | |

*The number of gross in a bundle is indicated by small figures on the side, divided by a star (*).

The following varieties of Screws are invoiced from this list at varying discounts: Flat, Round, Fillister and Oval Head Screws, of Brass, Copper, Bronze or Phosphor Bronze, Bronzed or Lacquered.

# CUT TACKS

Adopted May 1, 1897.




## B.B.B. CUT TACKS

Full Half Weight.

| Ounces | 1 | 1½ | 2 | 2½ | 3 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blued ..... per doz. | $0.48 | 0.53 | 0.58 | 0.63 | 0.68 | 0.73 | 0.78 | 0.83 | 0.88 | 1.03 | 1.18 | 1.33 | 1.48 | 1.63 | 1.78 | 1.93 |
| " in bulk ..... per lb. | 1.15 | 0.98 | 0.77 | 0.66 | 0.58 | 0.49 | 0.40 | 0.31 | 0.29 | 0.28 | 0.27 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 |

One dozen papers in a package; bulk, 25 lbs. in a box.

## SWEDES IRON, MINERS' AND UPHOLSTERERS' TACKS

Full Half Weight.

| Ounces | 1 | 1½ | 2 | 2½ | 3 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blued ..... per doz. | $0.53 | 0.58 | 0.63 | 0.68 | 0.75 | 0.83 | 0.93 | 1.03 | 1.13 | 1.30 | 1.48 | 1.65 | 1.88 | 2.00 | 2.20 | 2.40 |
| Tinned ..... " | 0.78 | 0.83 | 0.88 | 0.93 | 1.00 | 1.10 | 1.20 | 1.30 | 1.48 | 1.70 | 1.93 | 2.15 | 2.40 | 2.68 | 2.95 | 3.23 |
| Blued, in bulk ..... per lb. | 1.15 | 0.98 | 0.77 | 0.66 | 0.58 | 0.49 | 0.40 | 0.31 | 0.29 | 0.28 | 0.27 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 |

One dozen papers in a package; bulk, 25 lbs. in a box.

## TINNED TACKS

(All kinds, excepting Gimp and Lace.)

| Ounces | 1 | 1½ | 2 | 2½ | 3 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| In bulk ..... per lb. | $1.58 | 1.33 | 1.13 | 0.95 | 0.80 | 0.65 | 0.53 | 0.41 | 0.39 | 0.38 | 0.37 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 |

25 lbs. in a box.

**Zinc Tacks,** in 1 lb. papers, all sizes ..... per lb. $0.30

## CARPET TACKS




Large Head. Full Half Weight.

| Ounces | 4 | 6 | 8 | 10 | 12 | 14 | 16 |
|---|---|---|---|---|---|---|---|
| B.B.B. Iron, Blued ..... per doz. | $0.73 | 0.78 | 0.83 | 0.88 | 1.03 | 1.18 | 1.33 |
| " " Tinned ..... " | 0.98 | 1.05 | 1.13 | 1.25 | 1.43 | 1.65 | 1.88 |
| Leathered, 100 to paper ..... " | .... | 0.60 | 0.60 | 0.64 | 0.68 | .... | .... |
| B.B.B. Iron, Blued, in bulk ..... per lb. | 0.49 | 0.40 | 0.31 | 0.29 | 0.28 | 0.27 | 0.26 |

One dozen papers in a package; bulk, 25 lbs. in a box.

## GIMP AND LACE TACKS




### GIMP TACKS

Full Half Weight.

### LACE TACKS

Swedes Iron.

| Ounces | 1 | 1½ | 2 | 2½ | 3 | 4 | 6 | 8 | 10 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|
| Blued ..... per doz. | $0.88 | 0.95 | 1.03 | 1.10 | 1.20 | 1.30 | 1.43 | 1.55 | 1.70 | 1.88 |
| Tinned ..... " | 1.13 | 1.20 | 1.28 | 1.35 | 1.45 | 1.58 | 1.70 | 1.83 | 2.05 | 2.28 |
| Blued, in bulk ..... per lb. | 2.23 | 1.62 | 1.28 | 1.12 | 0.98 | 0.82 | 0.63 | 0.48 | 0.44 | 0.40 |
| Tinned, " ..... " | 2.66 | 2.00 | 1.64 | 1.41 | 1.20 | 0.98 | 0.76 | 0.57 | 0.53 | 0.49 |

One dozen papers in a package; bulk, 25 lbs. in a box.

# CHEESE BOX AND PAIL TACKS

## FLAT HEAD CHEESE BOX TACKS



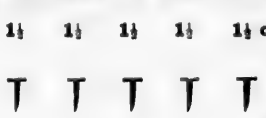

| Ounces | 6 | 8 | 10 | 12 | 14 | 16 | 18 |
|---|---|---|---|---|---|---|---|
| Length | 4-8 | 4½-8 | 5-8 | 5½-8 | 6-8 | 6½-8 | 7-8 inch. |
| In bulk, per lb. | $0.40 | 0.31 | 0.29 | 0.28 | 0.27 | 0.26 | 0.26 |

In 1 lb. papers or 25 lb. boxes.

## OVAL HEAD CHEESE BOX OR PAIL TACKS




## STRAWBERRY BOX TACKS




## BRUSH TACKS




Strawberry Box Tacks, put up in lb. papers or in bulk, per lb. $0.80

### BRUSH TACKS

| Length | 4-8 | 4½-8 | 5-8 | 5½-8 | 6-8 | 6½-8 | 7-8 | 7½-8 | 8-8 | 9-8 inch. |
|---|---|---|---|---|---|---|---|---|---|---|
| In bulk, per lb. | $0.72 | 0.58 | 0.48 | 0.41 | 0.36 | 0.32 | 0.29 | 0.26 | 0.24 | 0.22 |

## CIGAR BOX NAILS




## CHAIR NAILS




## BASKET NAILS




### CIGAR BOX, CHAIR OR BASKET NAILS

| Length | ⅛ | ⅝ | ⅜ | ⅞ | ⅝ | 1½ inch. |
|---|---|---|---|---|---|---|
| Per lb. | $0.34 | 0.32 | 0.30 | 0.28 | 0.26 | 0.26 |

In lb. papers or in bulk 25 lb. boxes.

## CLOUT NAILS




## TRUNK NAILS




### FINISHING, TRUNK AND CLOUT NAILS

| Length | ⅜ | ½ | ⅝ | ¾ | ⅞ | 1 | 1⅛ | 1¼ | 1½ | 1¾ | 2 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Per lb | $0.42 | 0.30 | 0.24 | 0.20 | 0.18 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | |

### TINNED TRUNK AND CLOUT NAILS

| Length | ⅜ | ½ | ⅝ | ¾ | ⅞ | 1 | 1⅛ | 1¼ | 1½ | 1¾ | 2 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Per lb | $0.48 | 0.36 | 0.30 | 0.26 | 0.24 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | |

## COPPER NAILS

### TRUNK, CLOUT AND CIGAR BOX NAILS AND TACKS

All sizes, ½ to 2 inches long ..... per lb. $0.66

### COPPER WIRE BOAT AND CANOE NAILS

With long points for clinching, or short points with bur or washer to match.

15 to 20 gauge, length $\frac{5}{16}$ to 2 inches ..... per lb. ....

### STEEL WIRE BOAT AND CANOE NAILS

Annealed very soft with long points for clinching.

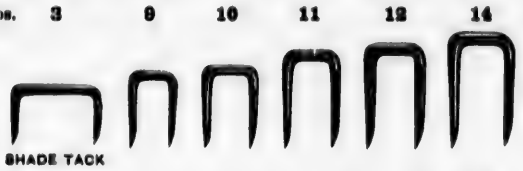
15 to 20 gauge, lengths $\frac{5}{16}$ to 2 inches ..... per lb. ....

## IMPROVED GLAZIERS' POINTS



| Nos. | 00 | 0 | 1 | 2 | 3 | 4 | |
|---|---|---|---|---|---|---|---|
| Zinc, all sizes, in ½ lb. papers | | | | | | | per paper 0.07 |
| Iron, " " " | | | | | | | " 0.09 |
| Tin, " " " | | | | | | | " 0.08 |

# DOUBLE POINTED STEEL CARPET TACKS




| | | 3 | 9 | 10 | 11 | 12 | 14 | |
|---|---|---|---|---|---|---|---|---|
| Nos. | | | | | | | | |
| Length | | | | | | | | inch. |
| Blued | per doz. papers | $1.20 | 1.20 | 1.30 | 1.40 | 1.60 | 1.85 | |
| Tinned | " " | 1.80 | 1.80 | 1.95 | 2.10 | 2.40 | 2 77½ | |
| Blued, in bulk | per lb. | .... | 0.10 | 0.00½ | 0.00 | 0.08½ | 0.08½ | |
| Tinned, " | per lb. extra | | | | | | 0.03 | net. |

In dozens, packed 12 papers in a package, 12 packages in a case. In bulk, 50 and 100 lb. boxes.

**Net extras:** When packed in bulk 25 lb. boxes, ½c. per lb.; less than 25 lb. boxes, including 1 lb. papers, ½c. per lb.

## OVAL HEAD LINING NAILS




Silver or Japanned.

2½ to 12 oz., 75 to paper ..... per paper $0.04

Package contains 20 paper boxes.

## SOLID HEAD LINING TACKS

| Ounces | 2½ | 3 | 4 | 6 | 8 | 10 |
|---|---|---|---|---|---|---|
| Japanned..per lb. | $0.80 | 0.70 | 0.65 | 0.55 | 0.52 | 0.50 |

## BEST FLOUR BARREL NAILS




Blued or Bright.

| Length | ¾ | ⅞ | 1 | 1⅛ inch. |
|---|---|---|---|---|
| Per keg ..... (100 lbs.) | $8.25 | 7.75 | 7.50 | 7.00 |

**Coopers' Nails,** (Light) same price.

## STEEL AND BRASS ESCUTCHEON PINS




## STEEL AND IRON ESCUTCHEON PINS

In 1 lb. paper boxes. Price, per lb.

| Inch. | 3/16 | ¼ | ⅜ | ½ | ⅝ | ¾ | ⅞ | 1 | 1⅛ | 1¼ | 1½ | 1¾ | 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Wire Gauge. | | | | | | | | | | | | | |
| 12 | ..... | | 27 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 17 |
| 13 | ..... | | 28 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 19 | 19 |
| 14 | 40 | 33 | 30 | 28 | 26 | 25 | 24 | 23 | 22 | 22 | 21 | 21 | 21 |
| 15 | 45 | 35 | 32 | 30 | 28 | 27 | 26 | 25 | 24 | 24 | 24 | 24 | 24 |
| 16 | 50 | 40 | 35 | 32 | 30 | 28 | 27 | 26 | 26 | 26 | 26 | 26 | 27 |
| 17 | 55 | 45 | 37 | 34 | 32 | 30 | 29 | 28 | 28 | 28 | 28 | 29 | 30 |
| 18 | 60 | 50 | 40 | 36 | 34 | 32 | 30 | 30 | 30 | 30 | 32 | 33 | 35 |
| 19 | 70 | 55 | 50 | 45 | 40 | 35 | 35 | 38 | 38 | 38 | 40 | ..... | ..... |
| 20 | 85 | 65 | 60 | 50 | 45 | 40 | 40 | 45 | 45 | 45 | ..... | ..... | ..... |
| 21 | 100 | 80 | 70 | 60 | 55 | 55 | 60 | 60 | ..... | ..... | ..... | ..... | ..... |
| 22 | 125 | 100 | 85 | 70 | 65 | 70 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |

## BRASS ESCUTCHEON PINS

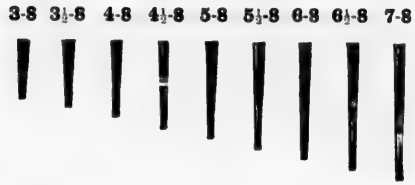
In 1 lb. paper boxes. Price, per lb.

| Inch. | 3/16 | ¼ | ⅜ | ½ | ⅝ | ¾ | ⅞ | 1 | 1⅛ | 1¼ | 1½ | 1¾ | 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Wire Gauge. | | | | | | | | | | | | | |
| 12 | ..... | | 77 | 75 | 74 | 73 | 72 | 71 | 70 | 69 | 68 | 67 | 67 |
| 13 | ..... | | 78 | 76 | 75 | 74 | 73 | 72 | 71 | 70 | 69 | 69 | 69 |
| 14 | 90 | 83 | 80 | 77 | 76 | 75 | 74 | 73 | 72 | 71 | 70 | 70 | 70 |
| 15 | 95 | 85 | 82 | 78 | 77 | 76 | 75 | 74 | 73 | 72 | 72 | 72 | 72 |
| 16 | 100 | 90 | 85 | 82 | 80 | 78 | 76 | 75 | 74 | 74 | 74 | 74 | 75 |
| 17 | 110 | 100 | 92 | 89 | 87 | 85 | 83 | 81 | 80 | 80 | 80 | 81 | 82 |
| 18 | 120 | 110 | 100 | 96 | 94 | 92 | 90 | 90 | 90 | 92 | 92 | 93 | 95 |
| 19 | 135 | 120 | 115 | 110 | 105 | 100 | 100 | 103 | 103 | 103 | 105 | ..... | ..... |
| 20 | 155 | 135 | 125 | 120 | 115 | 110 | 110 | 115 | 115 | 115 | ..... | ..... | ..... |
| 21 | 175 | 155 | 145 | 135 | 130 | 130 | 135 | 135 | ..... | ..... | ..... | ..... | ..... |
| 22 | 200 | 175 | 160 | 145 | 140 | 145 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |

Tinned, 50 per cent. advance on list price. **Headless Curtain Stretcher Pins** included in above list.

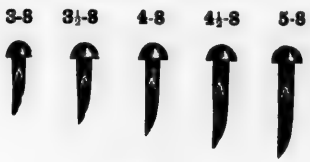
# SHOE FINDERS' LIST

## SHOE NAILS




| | | |
|---|---|---|
| Iron Shoe Nails | per lb. | $0.10 |
| Soft Steel " | " | 0.12 |
| Swedes Iron Nails | " | 0.14 |
| Zinc Nails | " | 0.17½ |
| Brass Shoe Nails | " | 0.45 |
| Copper " | " | 0.50 |

## HUNGARIAN NAILS




### B.B.B. IRON

| Size | 2-8 | 2½-8 | 3-8 | 3½-8 | 4-8 and longer. |
|---|---|---|---|---|---|
| Per lb. | $0.15 | 0.15 | 0.14 | 0.14 | 0.13 |

### SWEDES IRON

| Size | 2-8 | 2½-8 | 3-8 | 3½-8 | 4-8 and longer. |
|---|---|---|---|---|---|
| Per lb. | $0.17½ | 0.17½ | 0.16¾ | 0.16¾ | 0.16 |

In 1 lb. paper boxes.

## SWEDES IRON HOB NAILS

Square, Grooved, or Smooth Heads, in ½ lb. boxes, all sizes ..... per lb. $0.17

## SHOE TACKS




| Size | ½ | ¾ | 1 | 1½ | 2 | 2½ | 3 | 4 oz. |
|---|---|---|---|---|---|---|---|---|
| Per lb. | $1.10 | 0.70 | 0.40 | 0.31 | 0.28 | 0.26 | 0.23 | 0.22 |
| Per dozen papers | 0.39 | 0.39 | 0.39 | 0.39 | 0.48 | 0.54 | 0.58 | 0.58 |

## CHANNEL NAILS

### LIGHT OR MEDIUM

| Size | 2½-8 | 3-8 | 3½-8 | 4-8 | 4½-8 | 5-8 | 5½-8 | 6-8 | 6½-8 |
|---|---|---|---|---|---|---|---|---|---|
| Per lb. | $0.63 | 0.35 | 0.30 | 0.27 | 0.25 | 0.23 | 0.23 | 0.23 | 0.23 |

## BRASS AND STEEL WIRE SHOE RIVETS




### BRASS WIRE SHOE RIVETS

12, 16 and 17 Gauge, Plain Head, all sizes, in 1 lb. boxes ..... per lb. $0.25

### SOFT STEEL WIRE SHOE RIVETS

| | | |
|---|---|---|
| 12, 16 and 17 Gauge, Plain Head, all sizes, in 1 lb. boxes | per lb. | $0.10 |
| 16 Gauge Clinch-point " in 1 lb. boxes | " | 0.15 |
| 17 " " " " " | " | 0.17 |

# CUT NAILS

In 100 lb. kegs.

| Branded.... | 3dy | 4dy | 4½dy | 5dy | 6dy | 7dy | 8dy | 9dy | 10dy | 12dy | 16dy | 20dy | 30dy | 40dy | 50dy | 60dy |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length..... | 1¼ | 1½ | 1⅝ | 1¾ | 2 | 2¼ | 2½ | 2¾ | 3 | 3¼ | 3½ | 4 | 4½ | 5 | 5½ | 6 inch. |

## STANDARD LIST IRON AND STEEL CUT NAILS, AND CUT SPIKES

Adopted January 6th, 1898. Subject to change without notice.

Iron Cut Nails, Base 30 to 70dy.....per keg $.....

## EXTRAS

### CUT AND FENCE NAILS

| Size..... | 16 to 20dy | 10 to 12dy | 8 and 9dy | 6 and 7dy | 4 and 5dy | 3dy | 2dy |
|---|---|---|---|---|---|---|---|
| Advance per 100 lbs. | $0 05 | 0.10 | 0 15 | 0.30 | 0.40 | 0.65 | 1.00 |

### FINE BLUED NAILS

| | | |
|---|---|---|
| 3dy—Advance..... | per 100 lbs. | $1.00 |
| 2dy " ..... | " | 1.50 |

### CASING, BOX, TOBACCO BOX AND FLOORING NAILS

| Size..... | 20 to 30dy | 10 to 16dy | 8 and 9dy | 6 and 7dy | 4 and 5dy | 3dy |
|---|---|---|---|---|---|---|
| Advance per 100 lbs. | $0.55 | 0.60 | 0.65 | 0.70 | 0.95 | 1.20 |

### FINISHING NAILS

| Size..... | 3 inch and longer | 2½ and 2¾ | 2 and 2¼ | 1½ and 1¾ | 1¼ | 1 inch. |
|---|---|---|---|---|---|---|
| Advance.....per 100 lbs. | $0.60 | 0.65 | 0.70 | 0.95 | 1.20 | 1.50 |

### SLATING NAILS

| Size..... | 1½ and 1¾ | 1¼ | 1 inch. |
|---|---|---|---|
| Advance .....per 100 lbs. | $0.95 | 1.20 | 1.50 |

### COMMON BARREL NAILS

| Size..... | 1⅛ | 1 | ⅞ | ¾ inch. |
|---|---|---|---|---|
| Advance .....per 100 lbs. | $1.00 | 1.00 | 1.25 | 1.50 |

### CLINCH NAILS

In 50 lb. boxes.

| Size..... | 3 inch and longer | 2½ and 2¾ | 2 and 2¼ | 1½ and 1¾ | 1¼ | 1 inch. |
|---|---|---|---|---|---|---|
| Advance.....per 100 lbs. | $0.60 | 0.65 | 0.70 | 0.95 | 1.20 | 1.50 |

### SHARP AND FLAT PRESSED NAILS

In 50 lb. boxes.

| Size..... | 3 inch and longer | 2½ and 2¾ | 2 and 2¼ | 1½ and 1¾ | 1¼ | 1 inch. |
|---|---|---|---|---|---|---|
| Advance.....per 100 lbs. | $1.35 | 1.50 | 1.65 | 1.85 | 2.50 | 3.00 |

## WROUGHT IRON COUNTERSUNK CLOUT NAILS



| Length..... | 1 | 1¼ | 1½ | 1¾ | 2 | 2¼ | 2½ | 2¾ | 3 | 3½ | 4 inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gauge..... | 8 | 7 | 6 | 4 | 3 | 3 | 2 | 2 | 1 | 1 | 1/0 |
| Per 100 lbs..... | $15.40 | 13.90 | 12.75 | 12.00 | 11.25 | 10.90 | 10.50 | 10.50 | 10 15 | 10.15 | 10.15 |

# STEEL WIRE NAILS

## STANDARD COMMON NAILS

In Kegs.

## STANDARD GAUGES

| Size. | Length in Inches. | Gauge. | Advance over Base Price. | Moulding. | Finishing and Casing. | Flooring. | Clinch Long Point. | Clinch Flat Point. | Slating and Roofing. | Box. | Fence. | Tobacco. | Barrel. | Oval Head Car. | Eave Trgh Spikes. | Common Spikes. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2d | 1 | 15 | $1.00 | 16 | 17 | .. | 14 | 14 | 12 | .. | .. | .. | 14 | . | .. | .. |
| 3dF | 1¼ | 15 | | 16 | 17 | .. | .. | .. | 12 | .. | .. | .. | 14 | .. | .. | .. |
| 3d | 1¼ | 14 | 0.65 | 15 | 16 | .. | 13 | 14 | 11 | .. | .. | .. | 14 | .. | .. | . |
| 4d | 1½ | 13 | 0.40 | 14 | 15 | .. | 12 | 13 | 11 | 14 | .. | 12 | .. | 12 | .. | .. |
| 5d | 1¾ | 12 | | 13 | 14 | .. | 12 | 13 | 10 | 14 | 10 | 12 | .. | 10 | .. | .. |
| 6d | 2 | 12 | 0.30 | 12 | 13 | 11 | 11 | 12 | 10 | 13 | 10 | 11 | .. | 10 | .. | .. |
| 7d | 2¼ | 11 | | 12 | 13 | 11 | 11 | 12 | .. | 13 | 9 | 11 | .. | 9 | .. | .. |
| 8d | 2½ | 10½ | 0.15 | 11 | 12 | 10 | 10 | 11 | .. | 12 | 9 | 10 | .. | 9 | .. | .. |
| 9d | 2¾ | 10 | | 11 | 12 | 10 | 10 | 10 | .. | 11 | 8 | .. | .. | 8 | .. | .. |
| 10d | 3 | 9 | 0.10 | 10 | 11 | 9 | 9 | 9 | .. | 11 | 7 | .. | .. | 8 | .. | .. |
| 12d | 3¼ | 9 | | 9 | 11 | 9 | .. | .. | .. | 10 | 6 | .. | .. | 7 | .. | .. |
| 16d | 3½ | 7 | 0.05 | 8 | 10 | 8 | .. | .. | .. | 10 | 5 | .. | .. | 7 | .. | .. |
| 20d | 4 | 6 | | .. | 9 | 7 | .. | .. | .. | 9 | 4 | .. | .. | 6 | .. | 3 |
| 30d | 4½ | 5 | | .. | .. | .. | .. | .. | .. | 9 | .. | .. | .. | 6 | 5 | 3 |
| 40d | 5 | 4 | Base | .. | .. | .. | .. | .. | .. | 8 | .. | .. | .. | 5 | 4 | 2 |
| 50d | 5½ | 3 | | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 4 | 3 | 2 |
| 60d | 6 | 2 | | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 4 | 2 | 1 |
| AND LONGER | | | | | | | | | | | | | | | | |
| Base Price C.L. | | $ | | Net Extras over same size Common Nails. | | | | | | | | | | | | |
| Base Price L.C.L. | | $ | | ¼c. | ½c. | ¼c. | ½c. | ¾c. | ¼c. | ¼c. | ½c. | ¼c. | ¼c. | ½c. | ½c. | per lb. |

## OTHER EXTRAS, NET

Barbing, Annealing, Special Heads, Special Points ..... ¼c. per lb. each, net.
Packing in 25 and 50 lb. boxes ..... ¼ " " "
Packing in less than 25 lbs. and in 1 lb. papers ..... ½ " " "
Blued Nails ..... 10c. per 100 lbs., net.
Coated Nails ..... 10 " " "

Moulding, Finishing, Casing, Flooring, Clinch, Slating, Roofing, Box, Fence, Shingle, Tobacco, Barrel, Eave Trough Spikes and Car Nails of the Gauges named above will be charged at Common Nail List, with extras as shown.

All other Sizes and Gauges will be charged by the Miscellaneous List.

## MISCELLANEOUS WIRE NAIL LIST.

Applying to all Nails except Standard Nails.

| Length. | Gauge. | Per lb. | Length. | Gauge. | Per lb. | Length. | Gauge. | Per lb. |
|---|---|---|---|---|---|---|---|---|
| Inch. | | | Inch. | | | Inch. | | |
| ¼ | No. 19 and heavier | $0.65 | 1 and 1¼ | No. 16 and heavier | $0.26 | 3 and 3½ | No. 10 and heavier | $0.16 |
| | " 20 | 0.80 | | " 17 | 0.28 | | " 11 | 0.17 |
| | " 21 | 0.95 | | " 18 | 0.30 | | " 12 | 0.18 |
| ⅜ | No. 19 and heavier | 0.55 | 1½ and 1¾ | No. 15 and heavier | 0.22 | 3½ and 4 | No. 9 and heavier | 0.16 |
| | " 20 | 0.65 | | " 16 | 0.23 | | " 10 | 0.17 |
| | " 21 | 0.75 | | " 17 | 0.25 | | " 11 | 0.18 |
| ½ | No. 18 and heavier | 0.45 | 1½ | No. 14 and heavier | 0.21 | 4½ | No. 7 and heavier | 0.15 |
| | " 19 | 0.50 | | " 15 | 0.23 | | " 8 | 0.16 |
| | " 20 | 0.55 | | " 16 | 0.25 | | " 9 | 0.17 |
| ⅝ | No. 18 and heavier | 0.35 | 1¾ | No. 13 and heavier | 0.19 | 5 | No. 6 and heavier | 0.15 |
| | " 19 | 0.40 | | " 14 | 0.20 | | " 7 | 0.16 |
| | " 20 | 0.45 | | " 15 | 0.23 | | " 8 | 0.17 |
| ¾ | No. 17 and heavier | 0.30 | 2 and 2¼ | No. 12 and heavier | 0.17 | 5½ | No. 4 and heavier | 0.14 |
| | " 18 | 0.35 | | " 13 | 0.20 | | " 5 | 0.15 |
| | " 19 | 0.40 | | " 14 | 0 22 | | " 6 | 0.16 |
| ⅞ | No. 16 and heavier | 0.25 | 2½ and 2¾ | No. 11 and heavier | 0.17 | 6 and longer | No. 3 and heavier | 0.14 |
| | " 17 | 0.30 | | " 12 | 0.18 | | " 4 | 0.15 |
| | " 18 | 0.35 | | " 13 | 0.19 | | " 5 | 0.16 |

## NET EXTRAS

Sash Pins or Headless Nails ..... ½c. per lb.
Barbing, Annealing, Special Heads or Points .. ¼ "
Tinning, up to ⅜ inch ..... 6 "
" ⅜ inch and longer ..... 3 "
Galvanizing ..... 3 "
Packing in 25 and 50 lb. boxes ..... ¼c. per lb.
Packing in less than 25 lbs. and in lb. papers .. ½ "
Blued Nails ..... 10c. per 100 lbs.
Coated Nails ..... 10 "

In addition to these Extras, Nails on the above list in less than 100 lbs. of one size, 1c. per lb. extra, net.

# WROUGHT SHIP SPIKES



Full size cut, $5\frac{1}{2} \times \frac{1}{4}$ inch.

In kegs of 100 lbs.

| Thickness. | Lengths. | | |
|---|---|---|---|
| $\frac{1}{4}$ inch | × 4, $4\frac{1}{2}$, 5, $5\frac{1}{2}$, 6, 7, .. .. inch | per 100 lbs. | $4.75 |
| $\frac{5}{16}$ " | × 4, $4\frac{1}{2}$, 5, $5\frac{1}{2}$, 6, $6\frac{1}{2}$, 7, 8 " | " | 4.50 |
| $\frac{3}{8}$ " | × 4, 5, $5\frac{1}{2}$, 6, $6\frac{1}{2}$, 7, 8, 9 " | " | 4.25 |
| $\frac{7}{16}$ " and thicker | × 6, 7, 8, 9, 10, 11, .. .. " | " | 3.90 |

## TRAM RAIL SPIKES



$\frac{3}{4} \times 4$ inch ..... per 100 lbs. ....

## RAILWAY SPIKES

In casks or cases of 224 lbs., or other weights if desired.

| | | |
|---|---|---|
| $\frac{1}{2}$ inch × 5, $5\frac{1}{2}$, inch | per 100 lbs. | .... |
| $\frac{9}{16}$ " × 5, $5\frac{1}{2}$, 6, 9 inch | " | .... |

## RAILWAY TRACK BOLTS

**Prices quoted on application**

## BOAT NAILS



### ROUND COUNTERSUNK OVAL HEAD

| $\frac{1}{4}$ inch Diameter, Lengths | $1\frac{1}{2}$ | 2 | $2\frac{1}{2}$ | 3 inch. |
|---|---|---|---|---|
| Per lb. | $8 | .... | .... | .... |

### ORDINARY PATTERN, SWEDES IRON

Regular Points, in 25 lb. boxes.

| | Galvanized. | Black. |
|---|---|---|
| Length, 1 and $1\frac{1}{4}$ inch. ..... per lb. | $0.14 | 0.11 |
| " $1\frac{1}{4}$ " ..... " | 0.13 | 0.10 |
| " $1\frac{1}{2}$ and $1\frac{3}{4}$ " ..... " | 0.12 | 0.09½ |
| " 2 " $2\frac{1}{4}$ " ..... " | 0.11 | 0.09 |
| " $2\frac{1}{2}$ " $2\frac{3}{4}$ " ..... " | 0.10½ | 0.08½ |
| " 3 and longer ..... " | 0.10 | 0.08 |

## CLINCH RINGS



### COUNTERSUNK HOLE

| Size ..... | ½ | ⅝ | ¾ | ⅞ | 1 | 1¼ inch. |
|---|---|---|---|---|---|---|
| Per lb. ..... | $0.16 | 0.15 | 0.14 | 0.14 | 0.13 | 0.13 |

# HAND OF DOORS

**Useful Information Regarding**

## THE HAND OF

## LOCKS AND LATCHES



Fig. 1

**LEFT HAND DOOR**



Fig. 2

**RIGHT HAND DOOR**

The above cuts are inserted as a guide to enable customers when ordering to properly specify whether **Right** or **Left Hand** Locks or Latches are wanted. The hand of a door is **always** determined from the outside. When the hinges of the door are on your **right hand** as you stand outside about to enter it is a **right hand** door, Fig. 2. When the hinges are on the **left hand** it is a **left hand** door, Fig. 1. Such doors usually open inwards, but the hand is the same whether they open inward or outward; but if the door opens outward the bevel of the latch bolt must be reversed.

**Reverse Bevel**, locks are usually found on outer doors of public buildings, and the fact should always be stated in ordering.

English Rim Locks are opposite of the above.

# DESCRIPTION OF FINISHES

## ON BRONZE METAL

No. **1** —Light Bronze (Natural Color).
" **2** —"Chocolate" or Statuary Bronze.
" **3** —Light or Natural Color Surface, Black Background.
" **5** —Nickel-Plated.
" **8** —Gold-Plated, Burnished.
" **08** — " " "Satin" Finish.
" **10** —Oxidized Silver.
" **A10** — " " Sand Blast Finish.
" **O10** —Electro " "Satin" Finish.
" **20** —Antique Brass.
" **20½**— " " Light "Satin" Finish.
" **A20½**— " " " Sand Blast Finish.
" **22** — " Copper.
" **22½**— " " Medium.
" **22½**— " " Light.
" **A22** — " " Sand Blast Finish.
" **A22½**— " " " " Light.

## ON IRON OR STEEL

In addition to **Amber Bronzed Finish on Iron or Steel Goods, we now** have **Nubian, Persian,** and **Roman** Bronzed Finishes, which we designate as follows:—

**N** Prefixed to No. of article, indicates "Nubian Bronzed (Plain, Bronze-Plated).
**P** " " " " "Persian Bronzed" (Bronze-Plated Surface, with Black Background, No. 10 Finish).
**R** " " " " "Roman Bronzed" (Antique Copper-Plated).
**X** " " " " "Bower-Barff" or Rustless Iron, No. 23 Finish).
**NP** Indicates Nickel-Plated.
**D2** " Antique Copper.
**SD2** " " " Sand Blast Finish.

In ordering, use the No. or Letter of the Finish desired.

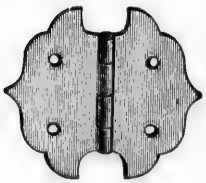
Extra charge will be made for Finishes other than Nos. 1, 2, or 3, on Bronze Metal, or where it has not been mentioned with the articles priced.

# ORNAMENTAL BRASS BUTTS

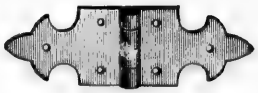
Cuts full size.



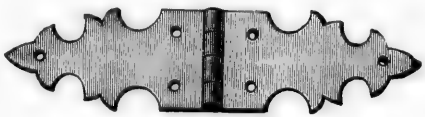
No. **15**..... .....per doz. pair $0.35



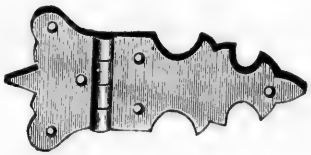
No. **1**.....per doz. pair $1.35



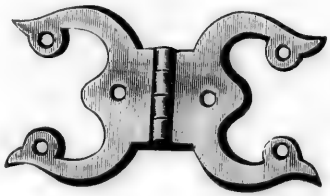
No. **6**.....per doz. pair $0.85



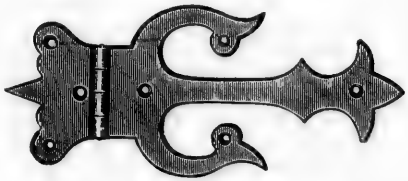
No. **7**..... .....per doz pair $1.50



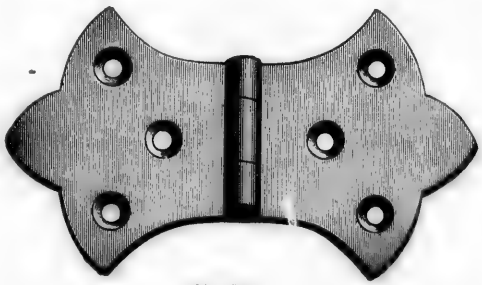
No. **25**..... per doz. pair $2.00



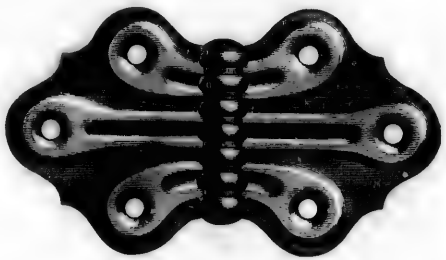
No. **26**..... per doz. pair $2.40



No. **4**..... .per doz. pair $2.30



No. **75**



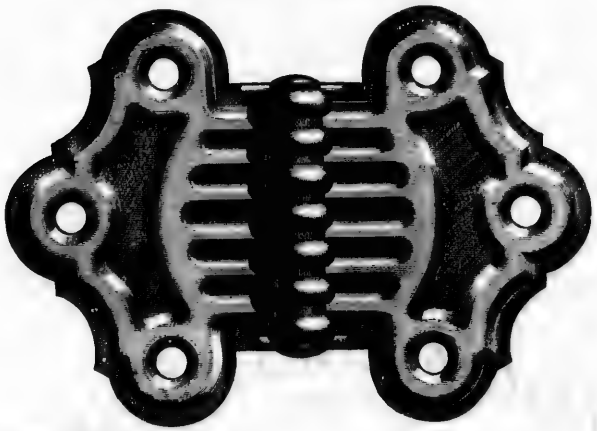
No. **1430**

| | | | |
|---|---|---|---|
| No. **75**—Brass, Polished | per doz. pair | $1.80 |
| " **123**—Bronze Metal, 2¼ × 3½ | " " | 16.00 |

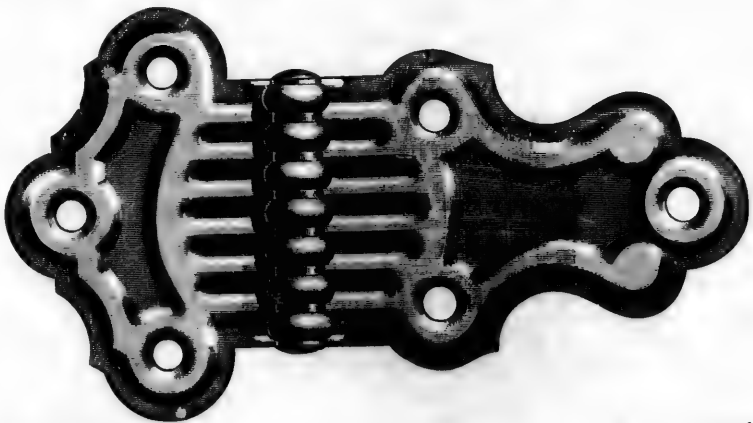
| | | |
|---|---|---|
| No. **1430**—Brass, Polished | per doz. pair | $3.00 |
| " **1430,D2**—Old Copper | " " | 3.25 |
| " **1430N**—Nickel-Plated | " " | 3.50 |

One dozen pair in a box.

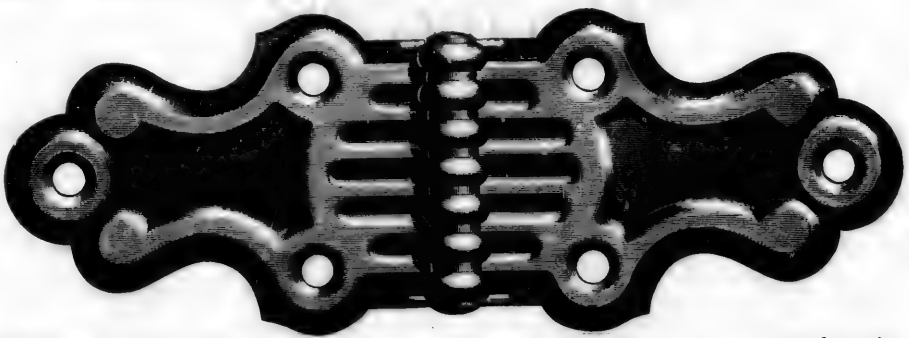
# ORNAMENTAL BUTTS



No. **1416**—Wrought Brass, Polished..... per doz. pair $8.00



No. **1405C**—Steel, Brass Plated..... per doz. pair 5.60
" **1408** —Wrought Brass, Polished, with ⅜ Offset for Refrigerators..... " " 7.60



No. **1412**—Wrought Brass, Polished..... per doz. pair 7.00

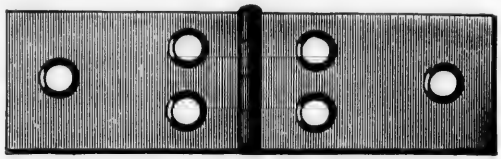
Cuts full size. Half-dozen pair in a box.

# STRAP HINGES



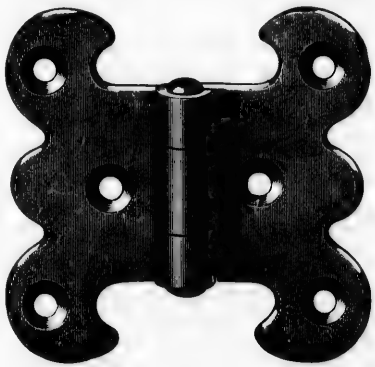


No. **102**—Brass, Polished.....per doz. pair $2.50 | No. **13**—Brass, Polished, 1½ × ⅜ in....per doz. pair $2.00



No. **104**—Brass, Polished, 1½ × 1 in.....per doz. pair $3.00

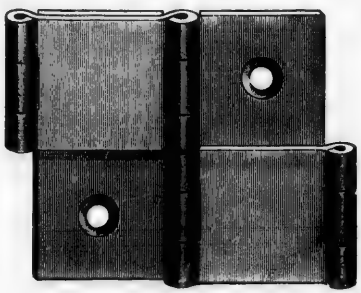
## ORNAMENTAL HINGES



| | | |
|---|---|---|
| Size | 1¾ × 1¾ | 2½ × 2½ inch. |
| No. **1421**½— Brass, Polished.....per doz. pair | $5.00 | 5.60 |
| " **1423**½— " " with ⅜ offset....." " | 5.40 | 6.00 |

## SCREEN BUTTS

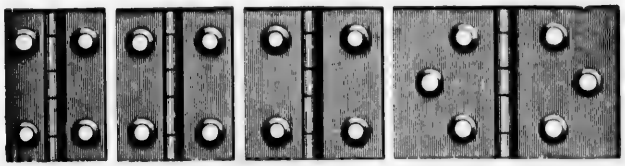
### WROUGHT BRASS, POLISHED, DOUBLE ACTING



1½ x 1½ inch.

| | | |
|---|---|---|
| Size | 1¾ × 1⅛ | 2 × 1⅝ inch. |
| No. **105**.....per doz. pair | $6.50 | 8.10 |

# WROUGHT BRASS BUTTS



NARROW MIDDLE BROAD DESK

Full size cuts of 1 inch.

| Size | ½ | ¾ | ⅞ | 1 | 1⅛ | 1¼ | 1½ | 1¾ | 2 | 2¼ | 2½ | 2¾ | 3 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Narrow.....per doz. pair | $0.24 | 0.28 | 0.30 | 0.32 | 0.40 | 0.46 | 0.52 | 0.68 | 0.80 | 1.12 | 1.35 | 2.00 | 2.50 | |
| Middle..... " " | 0.26 | 0.30 | 0.34 | 0.38 | 0.44 | 0.48 | 0.60 | 0.76 | 0.92 | 1.30 | 1.70 | .... | 3.00 | |
| Broad..... " " | 0.28 | 0.32 | 0.36 | 0.40 | 0.48 | 0.54 | 0.68 | 0.84 | 1.04 | 1.50 | 2.00 | .... | 3.50 | |
| Desk..... " " | .... | 0.40 | 0.50 | 0.60 | 0.72 | 0.84 | 1.20 | 2.00 | 2.80 | .... | .... | .... | .... | |

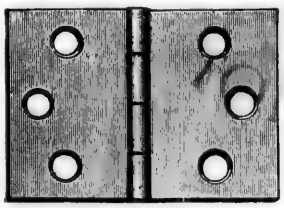
### Width of Brass Butts when Open

| Size | ½ | ¾ | ⅞ | 1 | 1⅛ | 1¼ | 1⅜ | 1½ | 1¾ | 2 | 2¼ | 2½ | 2¾ | 3 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Narrow—Width | 3/16 | 1/4 | 1/4 | 5/16 | 5/16 | 3/8 | 7/16 | 7/16 | 7/16 | 1 | 1¼ | 1½ | 1⅝ | 1¾ | " |
| Middle | 5/16 | 5/16 | 5/16 | 3/8 | 7/16 | 7/16 | 1 | 1 | 1 | 1⅛ | 1¼ | 1⅜ | 1½ | 1⅝ | " |
| Broad | 3/8 | 7/16 | 7/16 | 7/16 | 1 | 1 | 1⅛ | 1¼ | 1¼ | 1⅜ | 1⅜ | 1½ | 1⅝ | 1¾ | " |
| Desk | .. | .. | 1¼ | 1⅜ | 1⅜ | 1½ | 1⅝ | 2 | 2⅛ | 2⅜ | 3 | .. | .. | .. | .. | " |

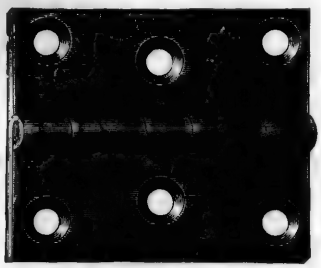
### Sizes of Screws to Fit Brass Butts

| Size of Butt | ½ | ¾ | ⅞ | 1 | 1⅛ | 1¼ | 1⅜ | 1½ | 1⅝ | 1¾ | 1⅞ | 2 | 2¼ | 2½ | 2¾ | 3 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Narrow, Middle or Broad | 0 | 1 | 1 | 2 | 2 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 6 | 6 | 7 | screw |
| Desk | 1 | 2 | 2 | 4 | 4 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | .. | .. | .. | .. | " |

# WROUGHT SHUTTER BUTTS



1¼ × 1¾ inch.



2 × 1¾ inch.

### BRASS, NOT POLISHED

| Size | 1 × 1½ | 1⅛ × 1¾ | 1¼ × 1¾ | 1½ × 2 | 1¾ × 2½ | 2 × 3 | inch. |
|---|---|---|---|---|---|---|---|
| No. 09.....per doz. pair | $0.84 | 0.84 | 0.84 | 1.10 | 2.00 | 3.00 | |

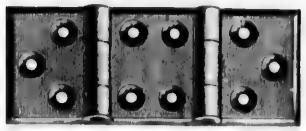
### BRONZE METAL, POLISHED

| Size | 1¼ × 1¾ | 1¼ × 2 | 1½ × 2 | 2 × 1¾ | 2 × 2 | inch. |
|---|---|---|---|---|---|---|
| No. 0029—Packed with Screws.....per doz. pair | $1.20 | 1.30 | 1.60 | 2.10 | 2.50 | |

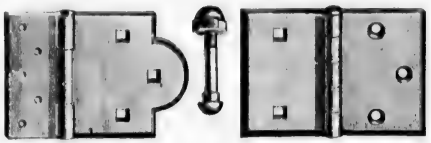
One dozen pair in a box.

# WATER CLOSET HINGES

Cuts quarter size.



No. 121



No. 597 No. 0597

No. **121**—Bronze Metal, $1\frac{1}{2} \times 3\frac{1}{8}$ inch ..... per doz. pair $6.90
" **597**— " $3\frac{1}{2} \times 5$ " complete with Screws and Bolts ..... per pair 5.65
" **0597**— " $3\frac{1}{2} \times 5$ " " " " ..... " 5.65

## DRAPER'S ADJUSTABLE CLAMP AND HINGE COMBINED



No. 598 No. 0598

For Water Closet Doors.

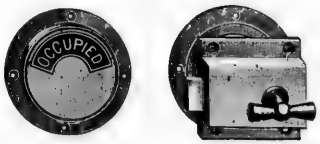
The Clamp, which is part of the Hinge, is made to adjust one quarter of an inch to allow for any variation in the thickness of the marble, thereby avoiding the necessity and expense of cutting marble to receive the Clamp. The Hinges are made for doors from $\frac{3}{4}$ to $1\frac{1}{2}$ inch thick, with Clamps adjustable for marble 1, $1\frac{1}{4}$ and $1\frac{1}{2}$ inch thick.

### BRASS, NICKEL-PLATED

No. **598**—Hinge to keep door closed ..... per pair $11.25
" **598½**— " " " open ..... " 11.25
" **0598**—Strike for Mortice Bolt No. 164B ..... each 7.50
" **0598½**— " " " " 650 ..... " 7.50

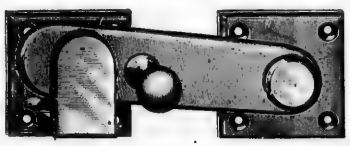
In ordering, state thickness of both door and marble.

## WATER CLOSET BOLTS



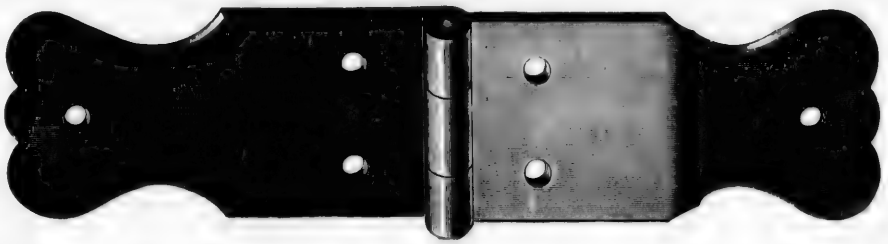

No. **156**—Bronze Metal ..... each $1.00

## WATER CLOSET LATCH



No. **599**—Nickel-Plated ..... each $1.25

# TRUNK HINGES



No. **1741**—6 inch, Iron, Japanned ..... per doz. pair $0.50

## TRUNK HINGE AND STAY



No. 1726



No. 1710

No. **1726**—6¾ inch, Steel, Japanned ..... per single doz. $2.80

" **1710**—6¾ " Iron, " ..... " " 2.50

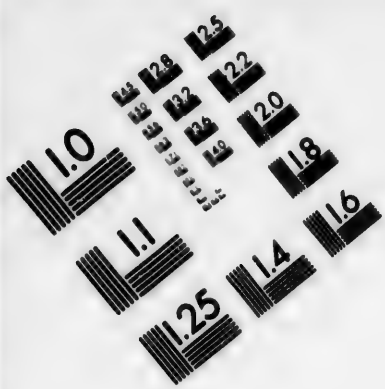
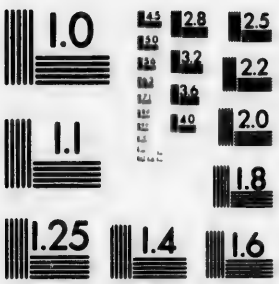
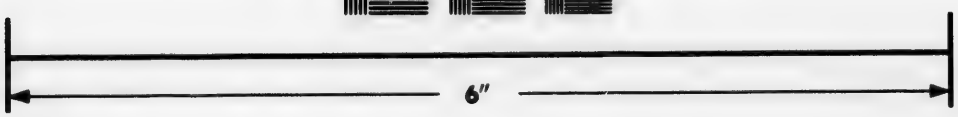






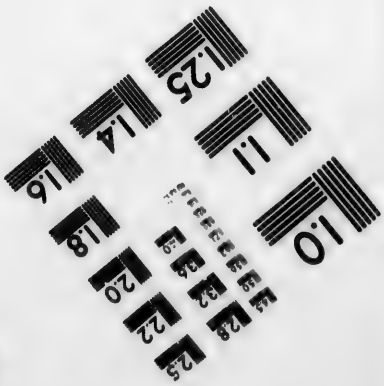
**IMAGE EVALUATION**
**TEST TARGET (MT-3)**










Photographic
Sciences
Corporation

23 WEST MAIN STREET
WEBSTER, N.Y. 14580
(716) 872-4503

# WROUGHT STEEL BUTTS




Full size, 2 inch.

### NARROW, FAST JOINT, BRIGHT

| Size | 1 | 1¼ | 1½ | 1¾ | 2 inch. |
|---|---|---|---|---|---|
| No. 800 ..... per doz. pair | $0.32 | 0.36 | 0.43 | 0.50 | 0.60 |

| Size | 2¼ | 2½ | 3 | 3½ | 4 inch. |
|---|---|---|---|---|---|
| No. 800 ..... per doz. pair | $0.66 | 0.72 | 0.90 | 1.44 | 1.92 |

### LIGHT NARROW, FAST JOINT, BRIGHT

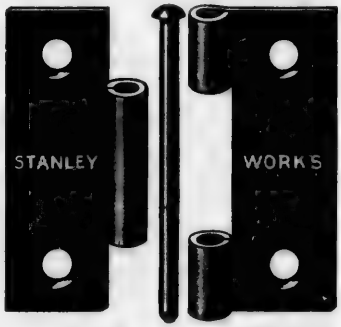
| Size | 1 | 1¼ | 1½ | 1¾ | 2 | 2½ inch. |
|---|---|---|---|---|---|---|
| No. 838 ..... per doz. pair | $0.32 | 0.36 | 0.43 | 0.50 | 0.60 | 0.66 |

3½ inch and smaller, one dozen pair in box; 4 inch, half dozen.

### LIGHT NARROW, LOOSE PIN BUTTS, BRIGHT

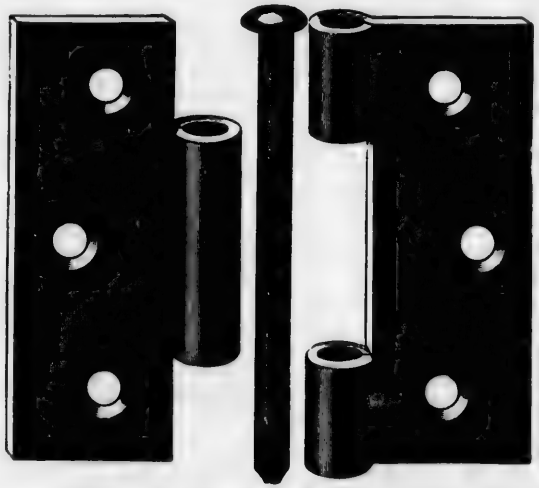
| Size | 1½ | 1¾ | 2 | 2¼ | 2½ | 3 inch. |
|---|---|---|---|---|---|---|
| No. 840 ..... per doz. pair | $0.56 | 0.65 | 0.78 | 0.86 | 0.94 | 1.10 |

One dozen pair in a box.




Full size, 2 inch.

### WROUGHT STEEL REVERSIBLE BUTTS, LOOSE PIN, BRIGHT

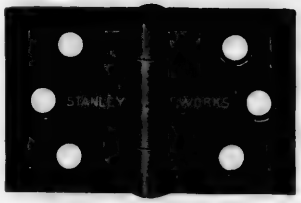


Full size, 3 × 2½ inch.

| Size | 2½ × 2½ | 3 × 2½ | 3 × 3 | 3½ × 3 | 3½ × 3½ | 4 × 4 | 4½ × 4½ | 5 × 5 | 6 × 6 inch. |
|---|---|---|---|---|---|---|---|---|---|
| No. 804 ..... per doz. pair | $1.32 | 1.68 | 1.86 | 2.40 | 2.70 | 3.30 | 4.25 | 5.50 | 7.00 |

Up to 3 × 3, one dozen pair in box; larger sizes, one-half dozen.

# WROUGHT STEEL BUTTS

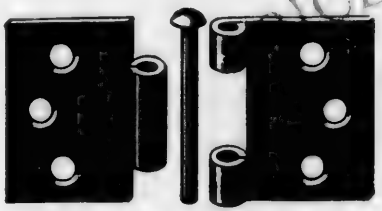



No. 842, cut of 1½ inch

## LIGHT INSIDE BLIND BUTTS

**No. 842, BRIGHT**

| Size | 1 | 1⅛ | 1¼ | 1⅜ | 1½ inch. |
|---|---|---|---|---|---|
| Per dozen pair | $0.45 | 0.50 | 0.55 | 0.60 | 0.65 |



No. 844, cut of 1½ inch

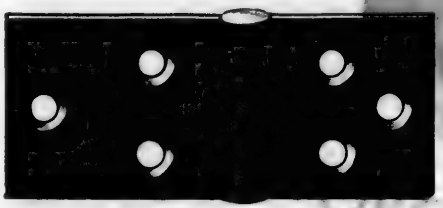
## LIGHT INSIDE BLIND BUTTS

**No. 844, LOOSE PIN, BRIGHT**

| Size | 1⅛ | 1¼ | 1⅜ | 1½ inch. |
|---|---|---|---|---|
| Per dozen pair | $0.70 | 0.75 | 0.80 | 0.85 |

**No. 834, LOOSE PIN, BRIGHT**

| Size | 2×2½ inch. |
|---|---|
| Per dozen pair | $1.20 |



No. 810, cut of 1½ inch

## TABLE HINGES

**No. 810, BRIGHT**

| Size | 1 | 1⅛ | 1¼ | 1⅜ | 1½ inch. |
|---|---|---|---|---|---|
| No. 810, per doz. pair | $0.45 | 0.50 | 0.55 | 0.60 | 0.65 |




No. 814, cut of 1½ inch

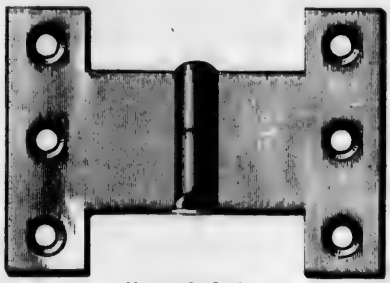
## BACK FLAPS

**No. 814, BRIGHT**

| Size | 1 | 1⅛ | 1¼ | 1⅜ | 1½ | 1¾ | 2 in. |
|---|---|---|---|---|---|---|---|
| No. 814 ..doz. pair | $0.50 | 0.55 | 0.60 | 0.65 | 0.70 | 0.80 | 0.90 |

One dozen in a box.

# PARLIAMENT BUTTS



No. 018, 2½ inch.

### WROUGHT STEEL, LOOSE JOINT, BRIGHT

| Size, Open | 3 | 3½ | 4 | 4½ | 5 | 6 | inch. |
|---|---|---|---|---|---|---|---|
| No. 830 ..... per doz. pair | $1.60 | 1.80 | 1.90 | 2.00 | 2.10 | 2.50 | |

### WROUGHT STEEL, LOOSE JOINT, ACORN TIP

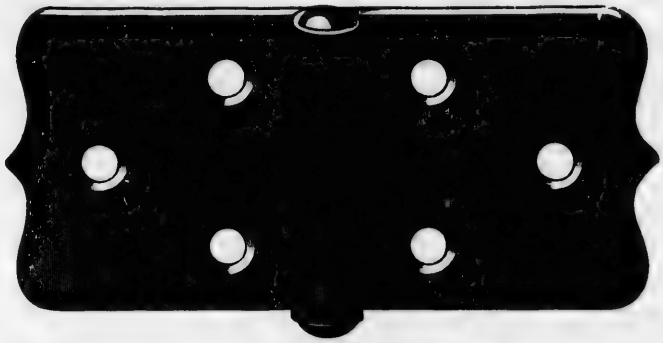
| Size, Open | 3½ | 4 | 4½ | 5 | 6 | inch. |
|---|---|---|---|---|---|---|
| No. 828 ..... per doz. pair | $3.30 | 3.40 | 3.50 | 3.60 | 4.00 | |

### WROUGHT BRASS, LOOSE JOINT

| Size, Open | 1¾ × 2½ | inch. |
|---|---|---|
| No. 018 ..... per doz. pair | $2.70 | |

4 inch and smaller, one dozen pair in a box; 4½ and larger, half dozen.

## WATER CLOSET HINGES



No. 1426, 2 inch.

| Size, Length of Joint | 1¾ | 2 | inch. |
|---|---|---|---|
| No. 1426—Steel, Planished and Bronzed ..... per doz. pair, with Screws | $2.20 | 2.50 | |

## LOOSE PIN BUTTS

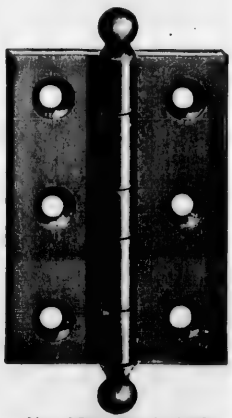
### LIGHT NARROW STEEL, BALL TIPS

| Size | 2½ × 2 | 2½ × 2½ | inch. |
|---|---|---|---|
| No. 289 —Planished and Bronzed ..... per doz. pair | $3.40 | 3.60 | |
| " 289, D2—Old Copper ..... " " | 4.30 | 4.50 | |

### BRONZE METAL, POLISHED, BALL TIPS

| Size | 2½ × 1¾ | 3 × 2 | inch. |
|---|---|---|---|
| No. 639½ ..... per doz. pair | $3.70 | 5.70 | |

One dozen pair in a box, with Screws.



No. 639½, 2 x 1½ inch.

# LOOSE PIN BUTTS

## WITH BALL TIPS



WROUGHT STEEL

| Size | | 3 × 3 | 3½ × 3½ | 4 × 4 | 4½ × 4½ | 5 × 5 inch. |
|---|---|---|---|---|---|---|
| No. 823—Bright Steel | per doz. pair | $.... | .... | 4.25 | .... | 6.40 |
| " 731—Japanned | " | 3.50 | 4.00 | 5.00 | 6.00 | 7.50 |
| " 727— " N. P. Tips | " | 6.50 | 8.00 | 9.20 | 10.00 | 12.00 |
| " 241, D2—Old Copper | per single pair | 0.55 | 0.65 | 0.75 | ..... | ..... |
| " 241, SD2— " Sand Finish | " | .... | 0.70 | 0.80 | 0.90 | 1.10 |
| " 241½—Polished and Bronzed | " | 0.75 | 0.85 | 0.95 | 1.05 | 1.25 |
| " 241½, D2—Old Copper | " | 0.90 | 0.95 | 1.10 | 1.20 | 1.40 |

Brass Plated Butts, same price as No. 241½, Polished and Bronzed.

## BRONZE METAL LOOSE PIN BUTTS

Polished, Steel Bushed, same design as above.

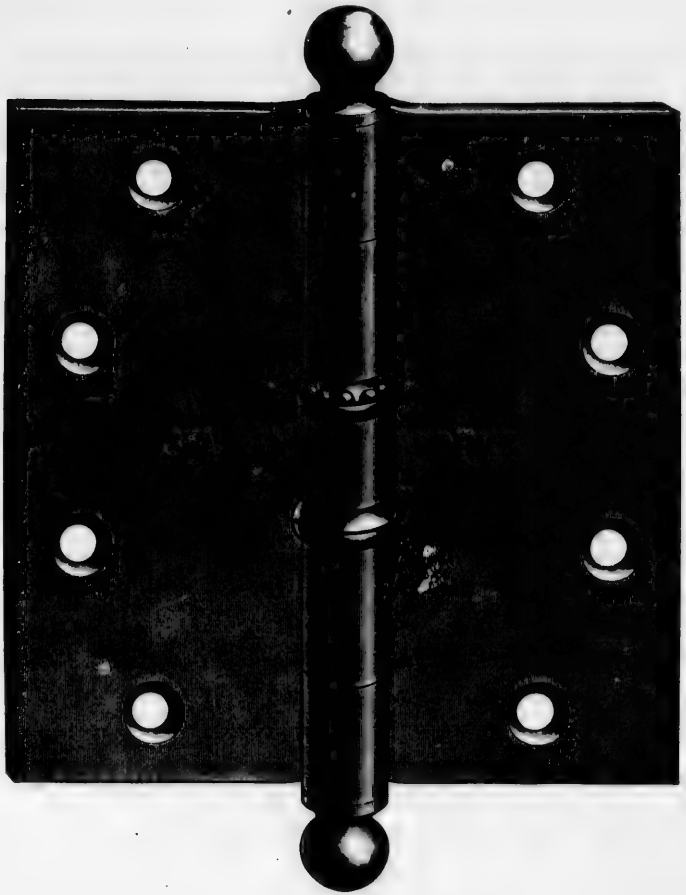
| Size | | 3 × 3 | 3½ × 3½ | 4 × 4 | 4½ × 4½ | 5 × 5 | 5½ × 5½ | 6 × 6 inch. |
|---|---|---|---|---|---|---|---|---|
| No. 61 | per single pair | $1.80 | 2.10 | 2.60 | 3.10 | 3.90 | 5.50 | 7.00 |

No. 61 can be supplied in Old Copper, Oxidized Silver or Bower-Barff to order.

The above, one pair in a box with Screws; excepting Nos. 823, 731 and 727, packed half-dozen pair without Screws.

# LOOSE PIN BUTTS

## WROUGHT STEEL, BALL-BEARING WASHERS



4½ × 4½ inch, with Ball-Bearing Washers

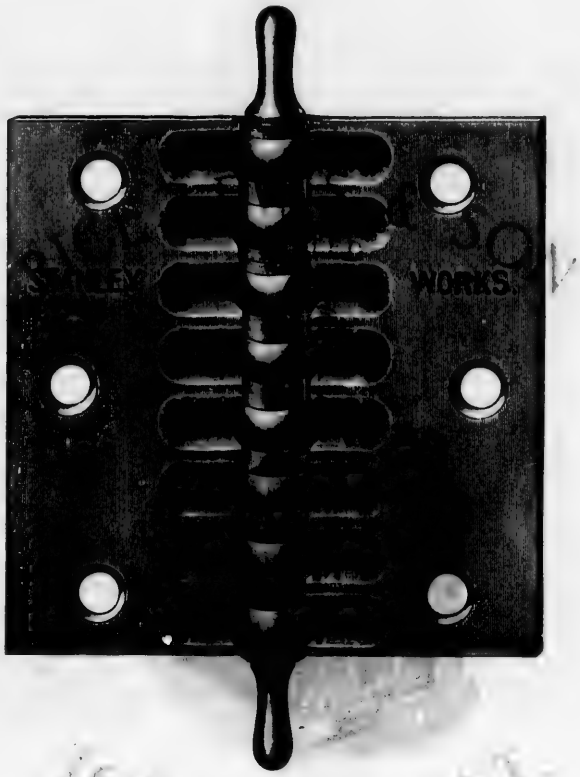
ADVANTAGES:—Unlimited resistance to wear. No necessity for oiling. Noiseless in operation.

| Size | | 4½ × 4½ | 5 × 5 | 6 × 6 inch. |
|---|---|---|---|---|
| No. 239—Polished and Bronzed | per pair | $2.10 | 2.30 | 2.90 |
| " 239, D2—Old Copper | " | 2.20 | 2.40 | 3.00 |
| " 239, SD2— " Sand Finish | " | 2.30 | 2.50 | 3.10 |

One pair in a box, with Screws.

# REVERSIBLE BUTTS

## WROUGHT STEEL, WITH IMPROVED PIN AND TIPS




Full size cut of 3½×3½.

## PLANISHED AND BRONZED

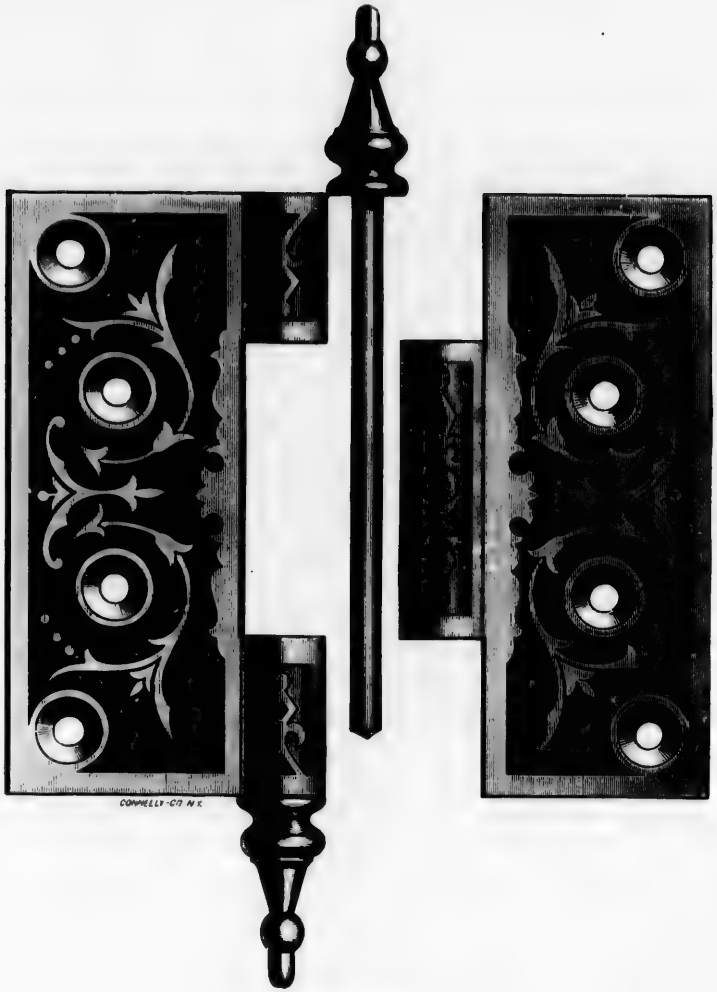
| Size | 3×3 | 3½×3½ | 4×4 | inch. |
|---|---|---|---|---|
| No. 854A.....per doz. pair | $3.25 | 4.00 | 4.90 | |

One-half dozen pair in a box, with Screws.

The corrugations above the joint greatly increase the strength of the butt, at the same time adding very much to its appearance. The tips and pin are one piece of solid steel, turned from a steel rod, and while a shoulder on the upper tip prevents the pin from falling out, it can be driven out, when necessary, by a sharp blow on the lower tip.

# LOOSE PIN ACORN TIP BUTTS

**RIGHT OR LEFT HAND**




Full size cut, 4 × 4 inch.

**No. 1800, NOT JAPANNED**

| Size | 2½ × 2½ | 3 × 2½ | 3 × 3 | 3½ × 3 | 3½ × 3½ | 4 × 4 | 4½ × 4½ | 5 × 5 inch. |
|---|---|---|---|---|---|---|---|---|
| No. **1800**.....per doz. pair | $1.35 | 1.60 | 1.75 | 2.15 | 2.35 | 2.90 | 4.00 | 5.50 |

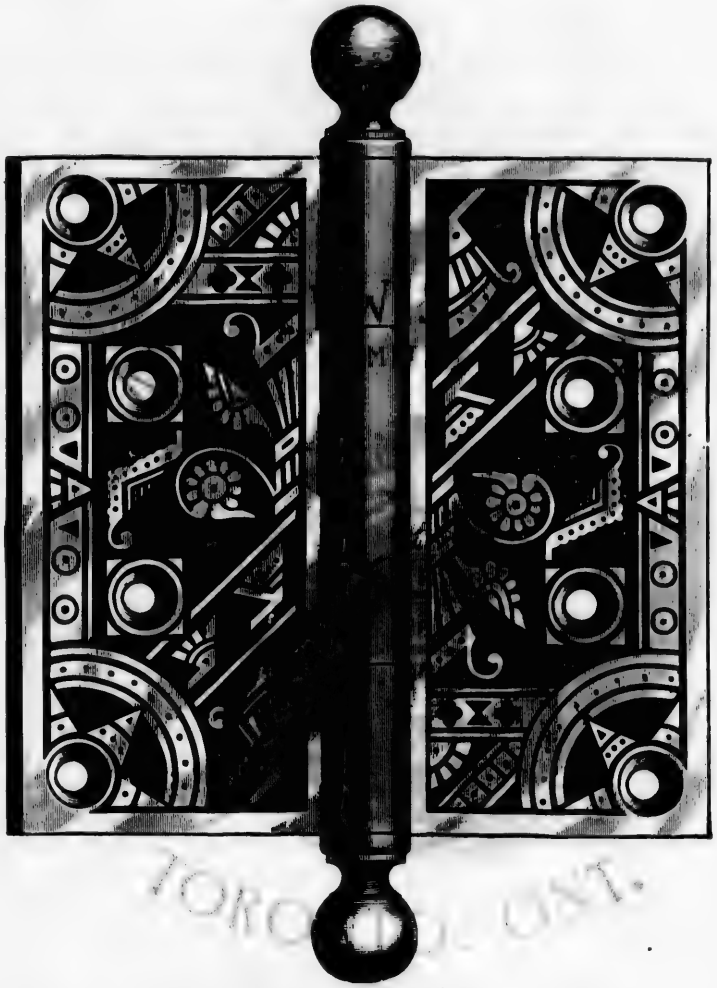
**No. 1801, JAPANNED**

| Size | 3 × 2½ | 3 × 3 | 3½ × 3 | 3½ × 3½ | 4 × 4 | 4½ × 4½ | 5 × 5 inch. |
|---|---|---|---|---|---|---|---|
| No. **1801**.....per doz. pair | $2.80 | 3.00 | 3.45 | 3.70 | 4.50 | 5.50 | 7.00 |

Half-dozen pair in a box.

# LOOSE PIN BALL TIP BUTTS

**RIGHT OR LEFT HAND**



Full size cut of 4½ x 4½ inch.

**No. 2900, BRONZE METAL, DOUBLE STEEL, BUSHED AT EVERY JOINT**

| Size | 3 x 3 | 3½ x 3½ | 4 x 4 | 4½ x 4½ | 5 x 5 | 5½ x 5½ | 6 x 6 inch. |
|---|---|---|---|---|---|---|---|
| Per pair | $1.70 | 2.00 | 2.50 | 3.20 | 3.80 | 4.50 | 5.50 |

**No. 3900, AMBER BRONZED**

| Size | 3 x 3 | 3½ x 3½ | 4 x 4 | 4½ x 4½ | 5 x 5 | 5½ x 5½ | 6 x 6 inch. |
|---|---|---|---|---|---|---|---|
| Per pair | $0.30 | 0.40 | 0.50 | 0.60 | 0.75 | 0.90 | 1.20 |

5 × 5 inch. 5.50

**No. 4900, BRONZE-PLATED (OR No. 10 FINISH)**

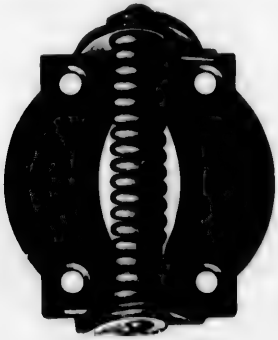
| Size | 3 x 3 | 3½ x 3½ | 4 x 4 | 4½ x 4½ | 5 x 5 | 5½ x 5½ | 6 x 6 inch. |
|---|---|---|---|---|---|---|---|
| Per pair | $0.60 | 0.70 | 0.80 | 0.90 | 1.10 | 1.30 | 1.60 |

5 × 5 inch. 7.00

In ordering Bronze Metal, state Finish desired.

One pair in a box, with Screws.

# SHOWCASE SPRING HINGES



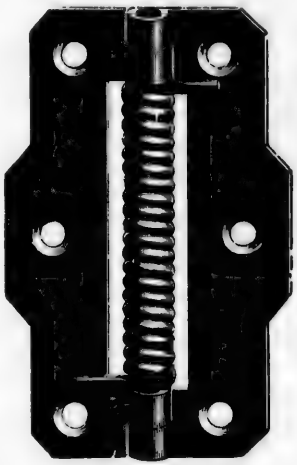
Full size cut.

| | | |
|---|---|---|
| No. **1**—Wrought Steel, with Brass Springs | per doz. pair | $2.00 |
| " **6**— " Brass " " | " " | 5.00 |

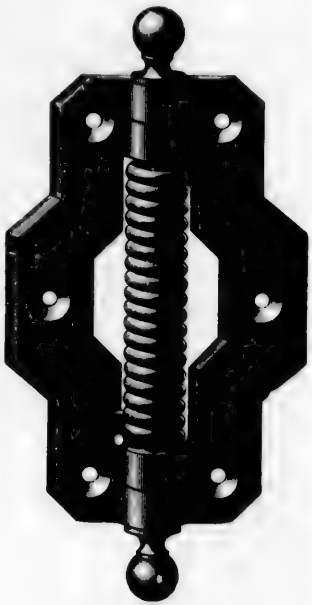
One dozen pair in a box.

## ACME SPRING HINGES

### FOR SCREEN DOORS



No. 2



No. 103

### SINGLE ACTING

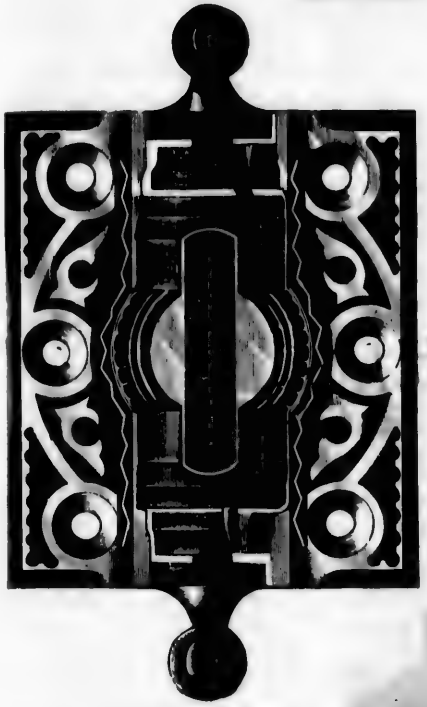
| | | |
|---|---|---|
| No. **2**—2½ inch Wrought Steel, Amber Bronzed, with Brass Springs | per doz. pair | $2.60 |
| " **702**—2½ " " Brass, with Brass Springs | " " | 4.00 |
| " **103**—3 " " Steel, Amber Bronzed, with Brass Springs and Brass Ball Tips | " " | 4.70 |
| " **1703**—3 " " Brass, with Brass Springs and Brass Ball Tips | " " | 7.20 |

### DOUBLE ACTING

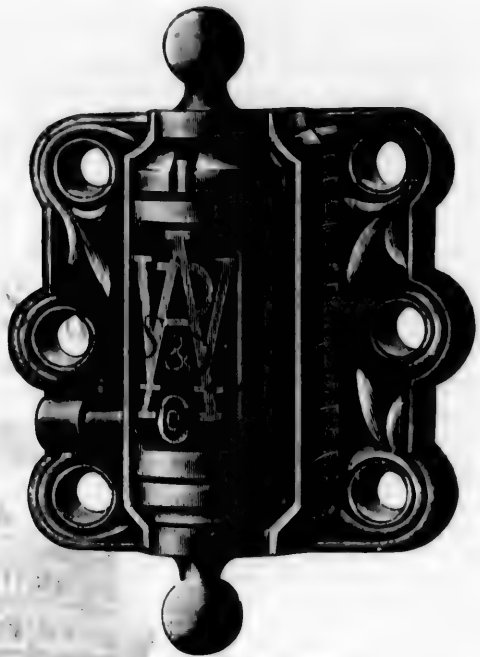
| | | |
|---|---|---|
| No. **13**—Wrought Steel, Amber Bronzed, with Brass Springs, without Tips, 3 inch | per doz. pair | $ 7.00 |
| " **1713**— " Brass, with Brass Springs and Brass Ball Tips, 3 inch | " " | 13.60 |

Without Tips, one dozen; with Tips, half-dozen pair in a box.

# SCREEN DOOR HINGES



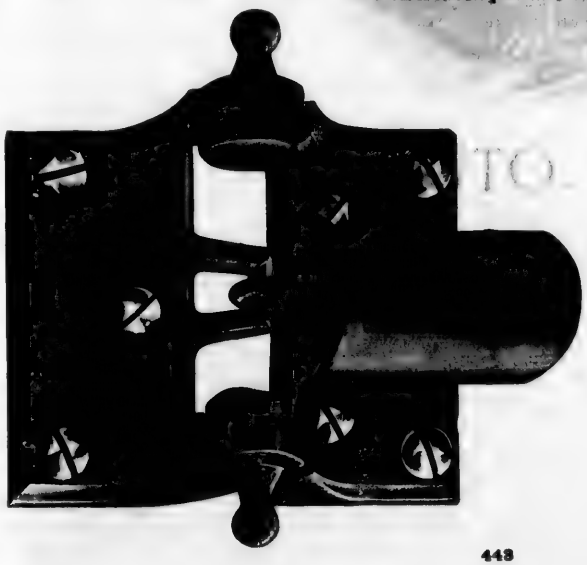
No. 5, full size cut.



Nos. 20 and 120, full size cut.

No. 5—Samson, Amber Bronzed, Hold Back. ..... per doz. pair $2.35
" 20—Arcade, Japanned, Hold Back ..... " " 1.60
" 120— " Antique Copper Bronzed, Hold Back ..... " " 3.50

Half-dozen pair in a box.



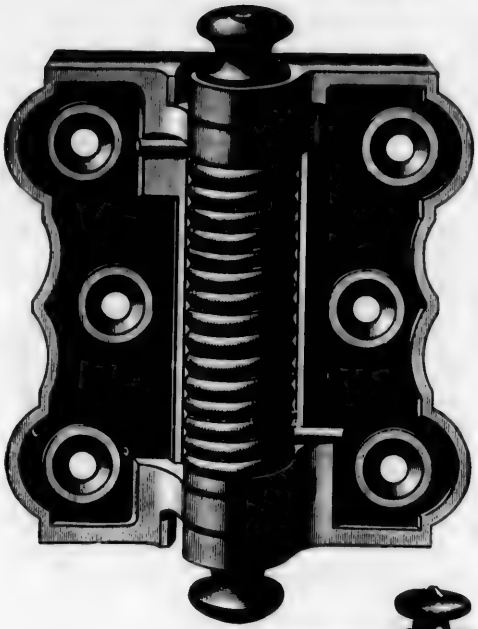
**No. 10, MATCHLESS**

Hold Back.

2½ x 3½ inch, Japanned..... per doz. pair $1.65

One dozen pair in a box.

# SCREEN DOOR HINGES

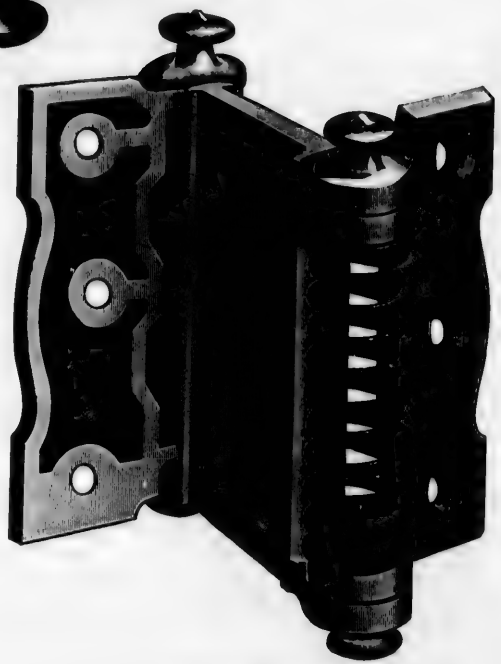


No. 165

JAPANNED, COPPERED SPRINGS

3 inch.....per doz. pair $2.00

Half-dozen pair in a box.



DOUBLE ACTING

No. 1165—3 inch, Japanned, Coppered Springs, for 1 and 1¼ Doors.....per doz. pair $5.00
" 50—3 inch, all Japanned, for 1 and 1¼ Doors..... " " 4.00

Half-dozen pair in a box.

# DOUBLE-ACTING SPRING HINGES

## "CARTLAND'S"

**Nos. 5753 and 5754, with regulating Capstan.**

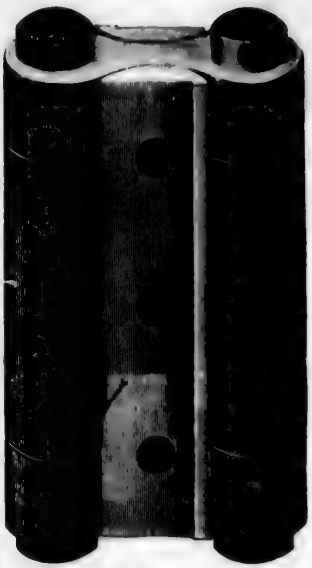
### ALL IRON, JAPANNED

| Size | 3 | 3½ | 4 | 4½ | 5 | 6 in. |
|---|---|---|---|---|---|---|
| For Doors | 1 to 1¼ | 1¼ to 1½ | 1½ to 1¾ | 1¾ to 1¾ | 2 | 2½ " |
| No. 5753—Spring Hinge...each | $1.05 | 1.25 | 1.35 | 1.70 | 1.95 | 2.40 |
| " 5753—Sham " ... " | 0.50 | 0.60 | 0.90 | 1.00 | 1.10 | 1.20 |

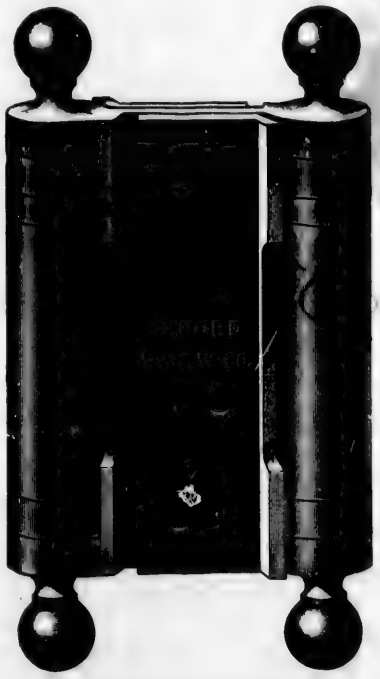
### ALL BRASS

| Size | 3 | 3½ | 4 | 5 | 6 | 7 in. |
|---|---|---|---|---|---|---|
| For Doors | 1 to 1¼ | 1¼ to 1½ | 1½ to 1¾ | 2 | 2½ | 2½ " |
| No. 5754—Spring Hinge...each | $1.65 | 2.05 | 2.60 | 3.35 | 3.90 | 5.30 |
| " 5754—Sham " ... " | 0.80 | 0.95 | 1.10 | 1.50 | 1.70 | .... |

Nos. 5353 and 5354 same list as 5753 and 5754.
Nos. 5353 and 5354 are without Capstan.



Nos. 5753 and 5754, 3 inch.



OXFORD DOUBLE-ACTING HINGE

## OXFORD DOUBLE-ACTING SPRING HINGES

**Japanned, Ball Tips.**

### SPRING HINGES

| | | | | | | |
|---|---|---|---|---|---|---|
| No. 143— | For Doors | 6×2 | feet, | ⅞ to 1¼ | inch..... | per pair $2.40 |
| " 144— | " | 7×2 | " | 1 to 1⅜ | " ..... | " 3.00 |
| " 145— | " | 7×2½ | " | 1 to 1½ | " ..... | " 3.70 |
| " 146— | " | 7×2½ | " | 1 to 1⅝ | " ..... | " 5.20 |
| " 147— | " | 8×2½ | " | 1¼ to 1⅞ | " ..... | " 6.70 |

### SHAM HINGES

| | | | | | | |
|---|---|---|---|---|---|---|
| No. 143B— | For Doors | 6×2 | feet, | ⅞ to 1¼ | inch ..... | per pair 1.20 |
| " 144B— | " | 7×2 | " | 1 to 1⅜ | " ..... | " 1.50 |
| " 145B— | " | 7×2½ | " | 1 to 1½ | " ..... | " 1.85 |
| " 146B— | " | 7×2½ | " | 1 to 1⅝ | " ..... | " 2.60 |
| " 147B— | " | 8×2½ | " | 1¼ to 1⅞ | " ..... | " 3.40 |

One pair in a box, with Screws.

# CHICAGO DOUBLE-ACTING SPRING BUTTS

**WROUGHT STEEL**

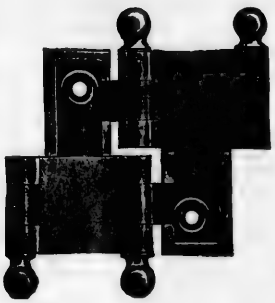




| | Japanned Lacq'red Springs. | Polished Nickel-Plated. | Polished Bronze-Plated. |
|---|---|---|---|
| Nos..... | 1½ | 21½ | 31½ |
| For Doors ⅞ to 1 in..per pair | $1.70 | 4.20 | 4.20 |
| " 1⅛ to 1¼ "..." | 2.10 | 5.25 | 5.25 |
| " 1⅜ to 1½ "..." | 3.50 | 7.70 | 7.70 |
| " 1¾ to 2 "..." | 5.60 | 10.50 | 10.50 |
| " 2⅛ to 2½ "..." | 9.80 | 14.00 | 14.00 |
| " 2⅜ to 3½ " Cast Metal, Japanned ....No. 1, per pair | | | 14.00 |
| " 2⅜ to 3¼ " " Bronze-Plated, " 31, " | | | 19.60 |

When applied to the door, the Spring of this style is concealed when closed. The Spring has a purchase power in closing the door.





## CHICAGO DOUBLE-ACTING BLANK BUTTS

**WROUGHT STEEL**

| | Japanned. | Polished Nickel-Plated. | Polished Bronze-Plated. |
|---|---|---|---|
| Nos..... | 3½ | 23½ | 33½ |
| For Doors ⅞ to 1 in..per pair | $0.85 | 2.10 | 2.10 |
| " 1⅛ to 1¼ "..." | 1.05 | 2.50 | 2.50 |
| " 1⅜ to 1½ "..." | 1.75 | 3.85 | 3.85 |
| " 1¾ to 2 "..." | 2.80 | 5.25 | 5.25 |
| " 2⅛ to 2½ "..." | 4.90 | 7.00 | 7.00 |

To economize for light doors, put a Spring Butt at the top and a Blank Butt at the bottom of the door. Never use a Blank on outside doors, as it takes the full power of two Springs to hold door against the draft. Always put it below the Spring Butt.





## CHICAGO SINGLE-ACTING SPRING BUTTS

**CAST METAL**

| | Japanned Lacq'red Springs. | Polished Nickel-Plated. | Polished Bronze-Plated. |
|---|---|---|---|
| Nos..... | 2 | 22 | 32 |
| For Doors ⅞ to 1⅛ in..per pair | $1.40 | 2.80 | 2.80 |
| " 1¼ to 2 "..." | 3.15 | 6.30 | 6.30 |

Common Loose Pin or Loose Joint Butts can be used as Blanks with this.

This style, as in the Double-Acting, requires but little labor or mechanical skill to apply them.

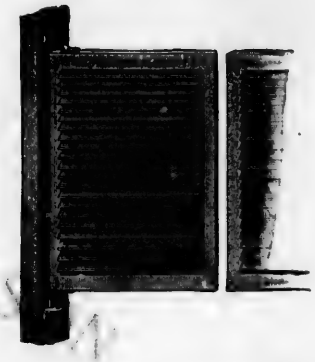
# SALOON DOOR HINGES

**KEENE'S PATENT DOUBLE-ACTING**



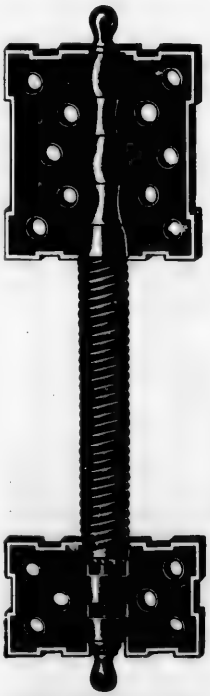


FOR DOORS WITH TOP MOULDING



| | | | |
|---|---|---|---|
| No. **7**—Japanned | per pair | $1.05 |
| " **27**—Nickel-Plated | " | 2.10 |
| " **37**—Bronze-Plated | " | 2.10 |

**This Butt has the advantage of allowing the door to be lifted from its bearings without removing screws or pins.**



THIS OPENS THE DOOR

## FIRE ENGINE HOUSE SPRING HINGES

**This Hinge throws the door open and is especially adapted to fire engine house doors, as they are held shut and require the hinge to throw the door open when released.**

**No. 9, JAPANNED**

| | | |
|---|---|---|
| For Stall Doors | per pair | $4.20 |
| For Front Doors | " | 7.00 |
| " " (extra heavy) | " | 9.80 |

## LAVATORY HINGES AND BLANKS

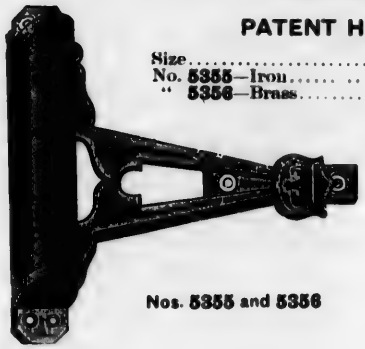
**BRASS OR BRONZE**

| | | |
|---|---|---|
| No. **452**—Spring | per pair | 9.10 |
| " **454**—Sham | " | 4.90 |

**In ordering state whether to open or close the door.**

# GATE AND DOOR SPRINGS

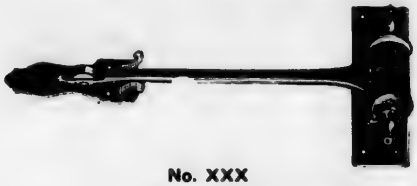
## PATENT HELICAL DOOR OR GATE SPRINGS



Nos. 5355 and 5356

| Size | 6 | 7 | 8 inch. |
|---|---|---|---|
| No. 5355—Iron, each | $1.25 | 1.85 | 2.25 |
| " 5356—Brass, " | 1.00 | .... | .... |

## ENGLISH GATE OR TAIL SPRINGS



No. XXX

| | | | |
|---|---|---|---|
| No. XXX | 16 | 18 | 20 inch. |
| Per dozen | $6.10 | 6.50 | 7.00 |

## IMPROVED "ECLIPSE" DOOR SPRINGS



### TUSCAN BRONZED

No. 1251—Suitable for Inside Doors, each $1.80

" 1253—Suitable for Heavy Inside Doors, or Light Outside Doors, each 2.30

" 1255—Suitable for Heavy Outside Doors, each 3.00

" 1257—Suitable for Very Heavy Outside Doors, each 4.00

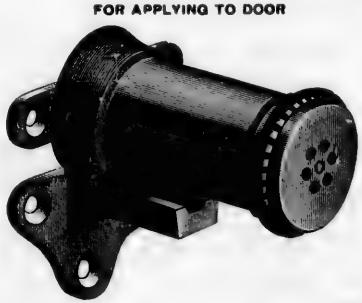
### EXTRA SPRINGS (SPRINGS ONLY) FOR REPAIRS

| Extra Springs for Nos | 1251 | 1253 | 1255 | 1257 |
|---|---|---|---|---|
| Each | $0.50 | 0.75 | 1.00 | 1.35 |

The Improved Eclipse has a Flat Spring instead of a Coiled Spring, and is suitable for either Right or Left Hand Doors. The Spring is Adjustable Tension, very compact and powerful, made from Heavy Clock Spring Steel. All parts are interchangeable.

## "ECLIPSE" DOOR CHECKS

FOR APPLYING TO DOOR



FOR APPLYING TO CASING



For either Right or Left Hand Doors.

### TUSCAN BRONZED

No. 1223—Suitable for Ordinary Doors, Diameter of Cylinder 1½ inch, each $3.00

" 1225— " Heavy " " " 2 " " 4.00

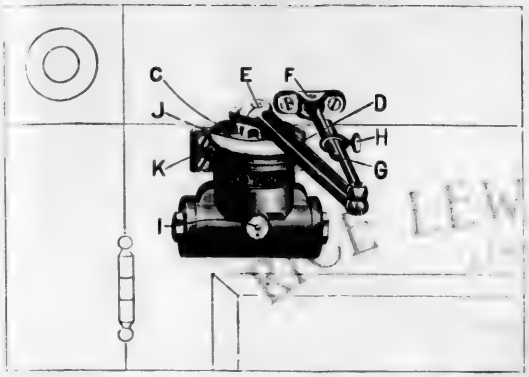
" 1227— " Very Heavy Doors " " " 2½ " " 6.00

Full Directions in each box.

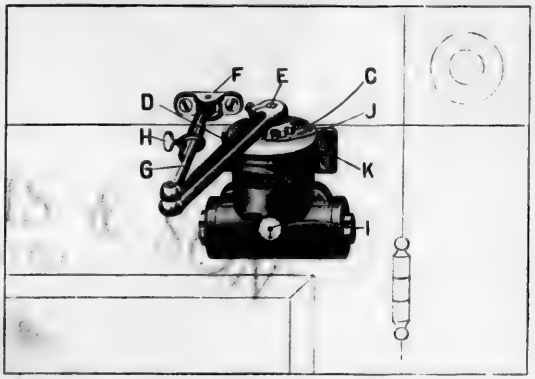
# LIQUID DOOR SPRING AND CHECK

**CASE'S IMPROVED**

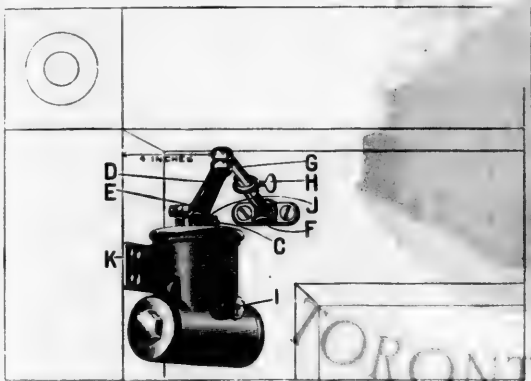
**Manufactured by P. & F. Corbin**



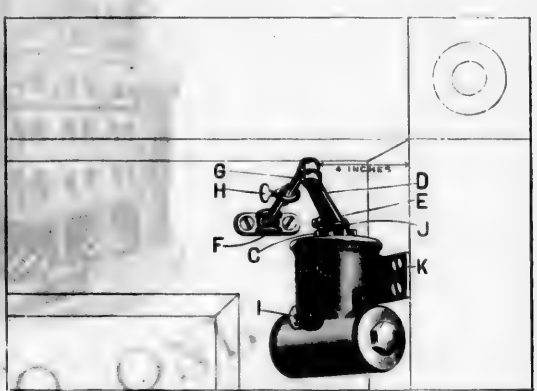

ON RIGHT HAND DOOR




ON LEFT HAND DOOR




ON LEFT HAND JAMB




ON RIGHT HAND JAMB

**COLUMBIAN BRONZED**

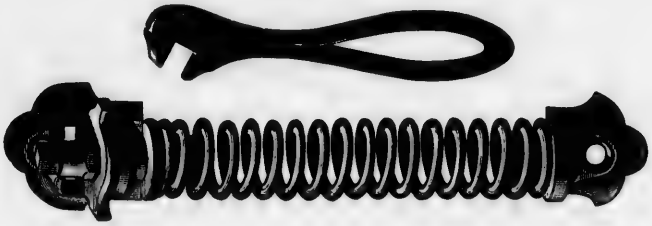
| | | |
|---|---|---|
| No. **A**—For Screen Doors | each | $5.25 |
| " **B**— " Narrow Inside Doors | " | 7.00 |
| " **C**— " Inside Doors not over 3 feet wide, and Outside Doors not over 2½ feet wide | " | 8.75 |
| " **D**— " Largest Inside Doors, and Outside Doors not over 3 feet wide | " | 10.50 |

One in a box.

Orders for the Improved Door Springs and Checks must state the **Hand** required, as they are made Right and Left Hand. If the door on which the Spring and Check is to be used is so situated as to receive strong draughts, use one size larger than would be necessary under ordinary conditions.

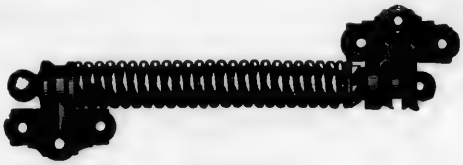
The most careful attention is given to every detail of their construction, insuring perfection of operation.

# COIL DOOR SPRINGS



**VICTOR**

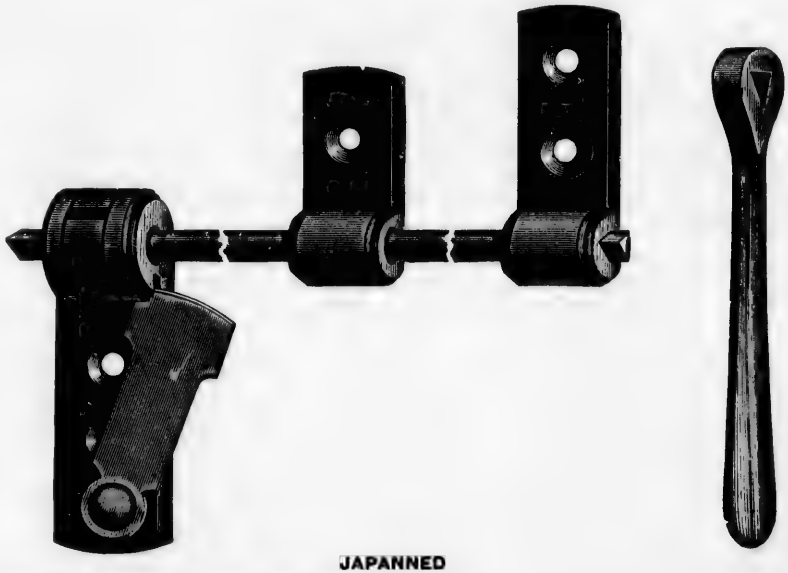
| | | | |
|---|---|---|---|
| No. **170**— | 9 inch, Coppered, for Light Screen Doors | per doz. | $2.00 |
| " **171**—10 | " " " Heavy " | " | 2.50 |
| " **173**—12 | " " " Extra Heavy Screen Doors | " | 4.00 |



**RELIANCE**

| | | | |
|---|---|---|---|
| No. **270** | —Laminated Spring, Light | per doz. | 1.65 |
| " **270H**— | " " Heavy | " | 3.50 |
| " **271** | —Nickeled " " | " | 5.00 |

## TORREY DOOR SPRINGS



**JAPANNED**

Torrey, Malleable Iron, Steel Rod, Packed with Screws ..... per doz. 2.60

One dozen in a box.

# BLIND HINGES AND FASTENINGS

## PARKER'S



UPPER HINGE



LOWER HINGE

### FOR WOOD BUILDINGS

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| No. | **1**— | Throws the Blind | 1 | inch | from | Casing | per doz. sets | | $1.75 |
| " | **2**— | " | " | 1½ | " | " | " | | 1.90 |
| " | **3**— | " | " | 2 | " | " | " | | 2.00 |
| " | **4**— | " | " | 2½ | " | " | " | | 2.15 |

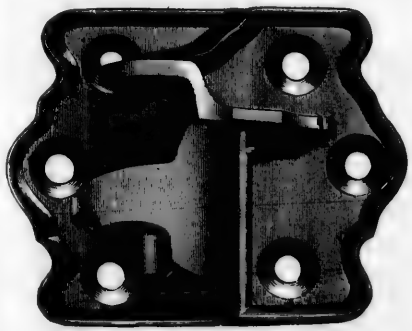
**One-half dozen sets in a package.**

### FOR BRICK BUILDINGS

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| No. | **5**— | Throws the Blind | 3 | inches | from | Casing | per doz. sets | | 2.65 |
| " | **6**— | " | " | 3½ | " | " | " | | 2.75 |
| " | **7**— | " | " | 4 | " | " | " | | 3.15 |
| " | **8**— | " | " | 4½ | " | " | " | | 3.50 |
| " | **9**— | " | " | 5 | " | " | " | | 4.00 |
| " | **10**— | " | " | 5½ | " | " | " | | 4.50 |
| " | **11**— | " | " | 6 | " | " | " | | 5.15 |

**One-third dozen sets in a package.**

## EUREKA BLIND HINGES



No. **10**—For Wood, throws Blind 1¼ inch from Casing.
Per dozen sets ..... 1.35

" **30**—For Brick, throws Blind 3¼ inches from Casing.
Per dozen sets..... 2.00

" **50**—For Brick, throws Blind 4½ inches from Casing.
Per dozen sets..... 4.30

**One-half dozen sets in a box.**

# WROUGHT LIGHT STRAP HINGES



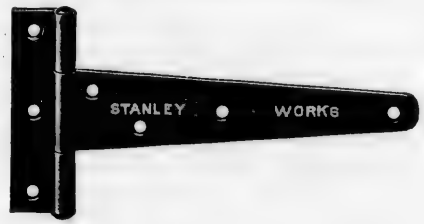

| Size, length of each Leaf | 3 | 4 | 5 | 6 | 8 | 10 inch. |
|---|---|---|---|---|---|---|
| Per dozen pair | $1.00 | 1.20 | 1.40 | 1.70 | 2.50 | 3.50 |

## WROUGHT HEAVY STRAP HINGES



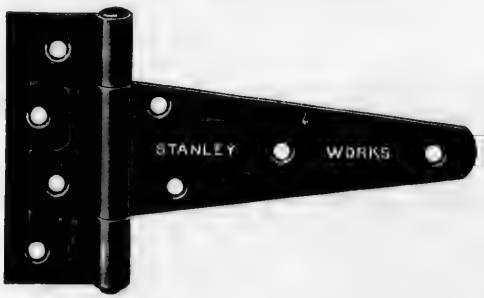

| Size, length of each Leaf | 4 | 5 | 6 | 8 | 10 | 12 | 14 inch. |
|---|---|---|---|---|---|---|---|
| *Weight ..... per doz. pair | 14 | 18 | 27 | 37 | 54 | 72 | 100 lbs. |
| Price ..... per lb. | $0.06½ | 0.06½ | 0.05½ | 0.05½ | 0.05½ | 0.05½ | 0.05½ |

## WROUGHT LIGHT T HINGES




| Size, length of Strap | 3 | 4 | 5 | 6 | 8 | 10 inch. |
|---|---|---|---|---|---|---|
| Per dozen pair | $1.00 | 1.10 | 1.30 | 1.50 | 1.80 | 2.40 |

## WROUGHT HEAVY T HINGES

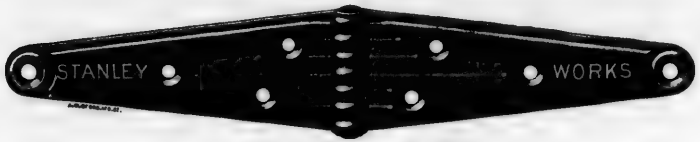



| Size, length of Strap | 4 | 5 | 6 | 8 | 10 | 12 | 14 inch. |
|---|---|---|---|---|---|---|---|
| *Weight ..... per doz. pair | 13 | 18 | 19 | 23 | 45 | 61 | 75 lbs. |
| Price ..... per lb. | $0.07 | 0.07 | 0.06½ | 0.05½ | 0.05½ | 0.05½ | 0.05½ |

*NOTE—Weights given are only approximate.

# HEAVY STRAP HINGES

## CORRUGATED STEEL




No. 935

| | | | | | | |
|---|---|---|---|---|---|---|
| Size, length of each Leaf | | 4 | 5 | 6 | 8 | 10 inch. |
| " of Screw | Nos. | 9 | 10 | 11 | 12 | 14 |
| No. 935 | per doz. pair | $1.70 | 2.30 | 3.25 | 5.20 | 7.50 |

NOE LEWIS & SON

## EXTRA HEAVY T HINGES

### CORRUGATED STEEL



No. 937

| | | | | | | |
|---|---|---|---|---|---|---|
| Size, length of Strap | | 4 | 5 | 6 | 8 | 10 inch. |
| " of Screw | Nos. | 10 | 10 | 11 | 13 | 14 |
| No. 937 | per doz. pair | $2.00 | 2.75 | 3.60 | 6.00 | 8.00 |

These Hinges are made on a new principle and have many points of superiority over the old-style Hinges.

The Corrugations about the Joints greatly increase the strength of the Hinge, at the same time rendering it impossible for it to bind upon the pin, no matter how rusty it may get. At the same time they are somewhat lighter than corresponding sizes of the regular Heavy Strap and Extra Heavy T Hinges, thus saving unnecessary expense for freight and making them easier to handle.

# SCREW HOOK HINGES



| Size | | 6 | 8 | 10 | inch. |
|---|---|---|---|---|---|
| Approximate Weight | per doz. pair | 21 | 28 | 41 | lbs. |
| Price | per lb. | $0.07 | 0.07 | 0.07 | |

| Size | | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Approximate Weight | per doz. pair | 56 | 61 | 73 | 80 | 100 | 107 | 114 | 135 | 160 | 185 | lbs. |
| Price | per lb. | $0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | |

## WROUGHT EXTRA HEAVY HINGE HASPS




Cut half size.

7½ inches long, 1¾ inches wide, ⅛ inch thick.

| | | | |
|---|---|---|---|
| No. **941J**—Japanned, without Screws | per single doz. | | $6.00 |
| " **941A**—Bronze-Plated, with Screws | " | " | 6.60 |
| " **1356**—Galvanized, with Screws | " | " | 7.75 |

## HINGE HASPS



### WROUGHT STEEL HINGE HASPS OR PADLOCK HINGES

| Size | | 3 | 4½ | 6 | 8 | inch. |
|---|---|---|---|---|---|---|
| Size of Screws | Nos | 6 | 7 | 9 | 10 | |
| No. **912** | per doz. pair | $1.75 | 2.00 | 2.25 | 3.50 | |

# CRATE HINGES AND HASPS

## WROUGHT STEEL










No. **921**, LIGHT HINGE AND HASP — No. **12** — No. **1**, DELAWARE

RICE LEWIS & SON

No. **921**—Light Crate Hinges and Hasps, 2½ inch (12 Hasps, 24 Hinges).....per doz. sets $0.80
" **12**—Hinge Hasps (cut half size).....per single doz. 0.60
" **1**—Delaware Hasps " " ..... " " 0.50

One dozen in a box.

## HASPS AND STAPLES



No. **20**, WROUGHT STEEL

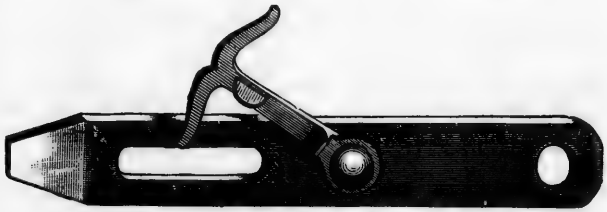
| Size | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **12** inch. |
|---|---|---|---|---|---|---|---|---|
| No. **20** per doz. | $0.84 | 0.90 | 1.00 | 1.10 | 1.30 | 1.70 | 2.00 | 2.60 |

One dozen in a box.

TORONTO ONT.

## HASPS, WITH HOOK AND STAPLES







No. **30**, WROUGHT STEEL

| Size | **6** | **7** | **8** | **10** | **12** inch. |
|---|---|---|---|---|---|
| No. **30** per doz. | $1.40 | 1.60 | 1.80 | 2.50 | 3.84 |

One dozen in a box.

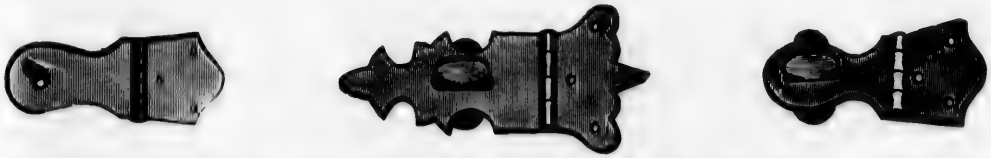
# WROUGHT HASPS, HOOKS AND STAPLES



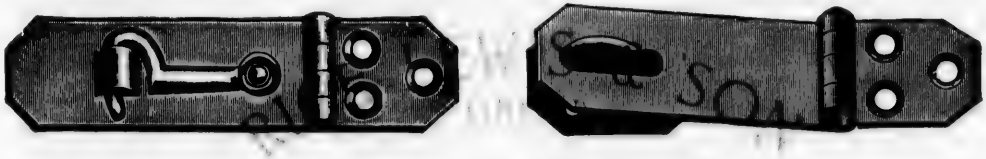
**8** inch, Extra Heavy Combination Hasps, Hooks and Staples, Right or Left Hand.....per doz. $1.80
**10** " " "

# WROUGHT BRASS HINGE HASPS

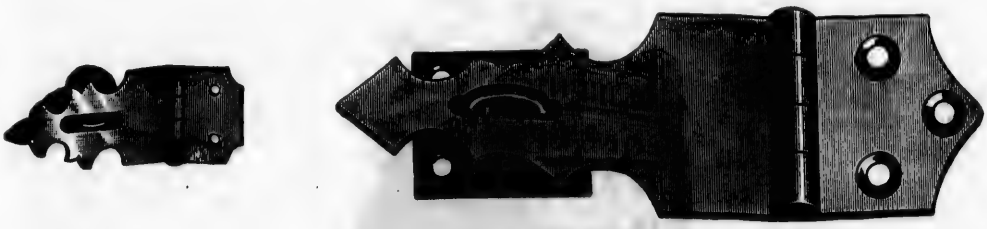
**Full size cuts.**



No. **800**—Nickel-Plated..per doz. **$1.50** | No. **851**—Brass .....per doz. **$2.00** | No. **850**—Brass.....per doz. **$1.00**



No. **840**—Brass.....per doz. **$1.00** | No. **804**—Brass.....per doz. **$1.40**



No. **802**—Brass.....per doz. **$1.00** | No. **803**—Brass.....per doz. **$4.00**

## BRONZED WROUGHT STEEL LIGHT BASKET HASPS



**2** inch.

No. **349**—2 inch..... ..per single doz., with Screws **$0.80**
" **349**—2½ " ..... " " " **0.90**

# WROUGHT STAPLES



| Length | 1 | 1¼ | 1½ | 1¾ | 2 | 2¼ | 2½ | 3 | 3½ | 4 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. 5 per gross | $1.20 | 1.20 | 1.25 | 1.50 | 1.70 | 2.00 | 2.35 | 3.20 | 3.70 | 5.25 | |

1 to 2¼ inch, one gross in a box; 3 to 4 inch, half gross.

## POULTRY NETTING STAPLES



GALVANIZED

No. 75—½ and ¾ inch ..... per lb. $0.10

## FENCE STAPLES



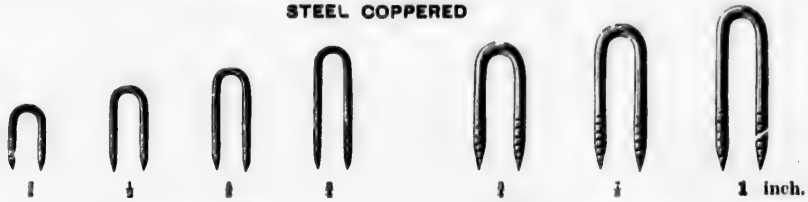
GALVANIZED

No. 80—1½, 1¾ and 2 inch ..... per lb. $0.08

Poultry Netting Staples in 10 lb. boxes. Fence Staples, 100 lb. boxes.

## BARBED BLIND AND BED STAPLES

STEEL COPPERED




BLIND STAPLES — BED STAPLES

| Size | | | ⅜ | ½ | ⅝ | ¾ | ⅞ | 1 | inch. |
|---|---|---|---|---|---|---|---|---|---|
| Blind Staples | per lb. | | $0.16 | 0.14 | 0.14 | 0.14 | .... | .... | |
| Bed Staples | " | | .... | .... | .... | 0.11 | 0.11 | 0.11 | |

In 10 lb. boxes.

## FLAT STEEL ROUND CROWN STAPLES




These Staples are used principally for Electrical purposes.

| Coppered, Sharp Pointed | ½ | ⅝ | ¾ | ⅞ | 1 | 1¼ | 1½ | 1¾ | inch. |
|---|---|---|---|---|---|---|---|---|---|
| Per lb. | $0.16 | 0.16 | 0.16 | 0.16 | 0.14 | 0.14 | 0.14 | 0.14 | |



PLAIN BARREL STAPLE



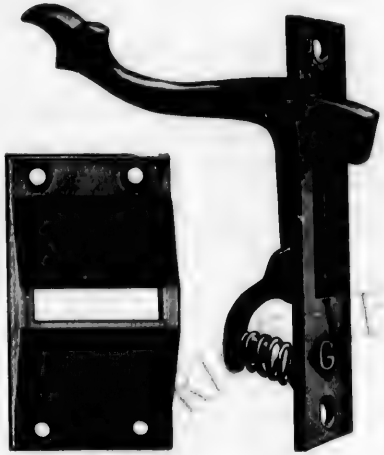
BASKET FASTENER



PATENT BARREL STAPLE

Barrel or Box Staples, Bright, ¾ inch long, ⅝ inch wide, Plain ..... per lb. $0.10
" " " " " " Patent ..... " 0.11
Basket Fasteners, Coppered Steel Wire Basket Fasteners, in 2 lb. packages ..... " 0.14

# GATE LATCHES

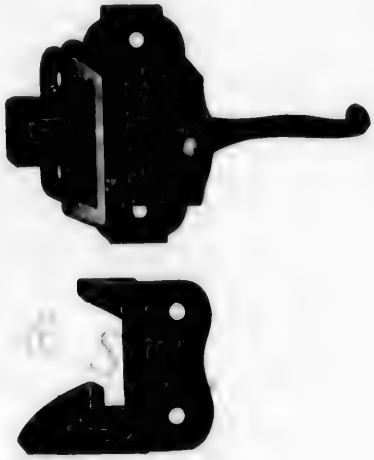


No. 1, half size cut.

**SPIRAL SPRING ACTION**

For Gates Swinging Both Ways.

No. 1—Japanned.....per doz. $1.70

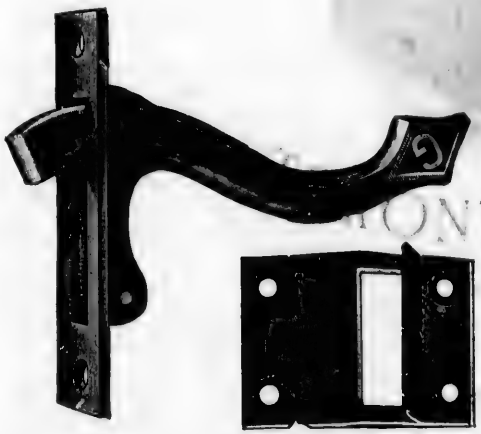


No. 8, half size cut.

**GRAVITY ACTION**

For Gates Swinging One Way.

No. 8—Japanned.....per doz. $1.70



No. 2, half size cut.

**GRAVITY ACTION**

For Gates Swinging One Way.

No. 2—Japanned.....per doz. $1.70



No. 3, half size cut.

**GRAVITY ACTION**

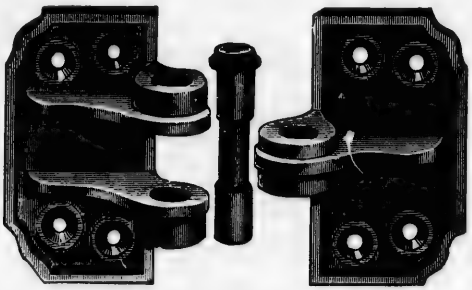
For Gates Swinging One Way.

No. 3—Japanned.....per doz. $1.70

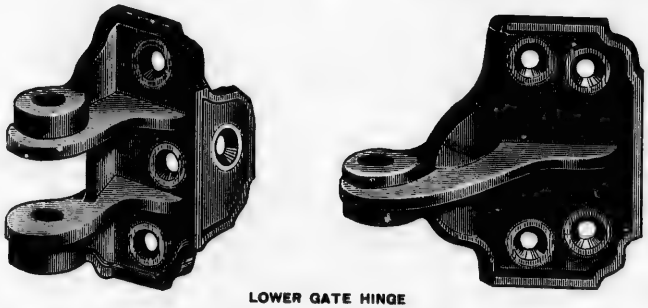
Half-dozen in a box.

# REVERSIBLE GATE HINGES

**SELF-CLOSING**



UPPER GATE HINGE

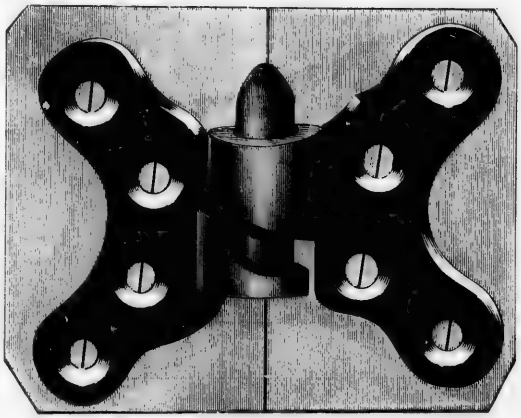


LOWER GATE HINGE

No. **60**—Reversible, Swing One Way..... .....per doz. pair $2.25

## SURFACE GATE HINGES

**SELF-CLOSING**

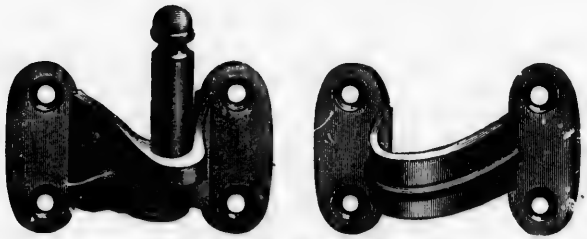


No. **3**—Japanned, Swing One Way, half Rights and Lefts in a box .....per doz. pair 2.00

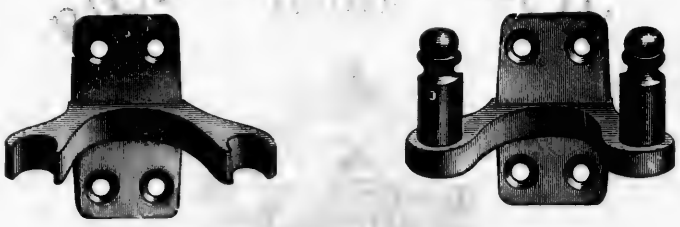
Half-dozen pair in a box.

# WESTERN GATE HINGES

## TO SWING BOTH WAYS



**No. 224, half size cut of Upper Hinge.**

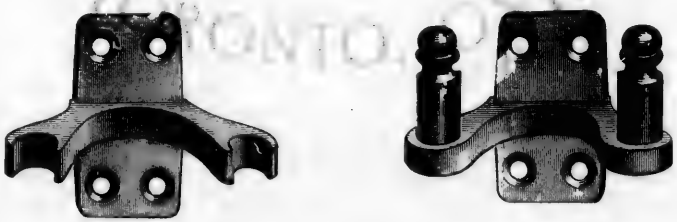


**No. 224, half size cut of Lower Hinge.**

No. **224**—Gate Hinges, Self-Closing.....per doz. pair **$3.20**



**No. 244, ⅞ inch diameter, 10 inches over all. Upper Hinge. Wrought Iron.**



**No. 244, half size cut of Lower Hinge.**

No. **244**—Gate Hinges, Self-Closing.....per doz. pair **4.40**

**Any Gate Latch in this Catalogue will suit these Hinges.**

**One-sixth dozen pair in a box.**

# BARN DOOR HANGERS

## FOR WOOD TRACK



STEARNS



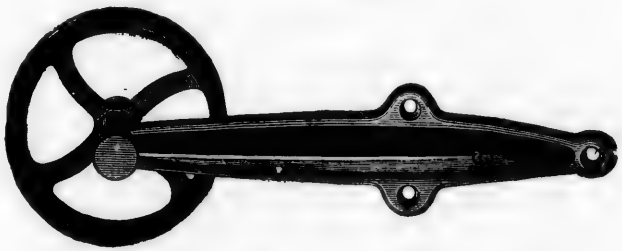

ZENITH



ACME

| | | |
|---|---|---|
| **Stearns** Barn Door Hangers, 4 inch | per doz. pair | $5.40 |
| " " " 5 " | " " | 6.75 |
| **Zenith** " " 4 " | " " | 9.90 |
| **Acme** " " Steel Frame, 4 inch | " " | 8.10 |
| " " " " 5 " | " " | 9.00 |

## FOR IRON TRACK



With Grooved Wheel for Half-Round Track.

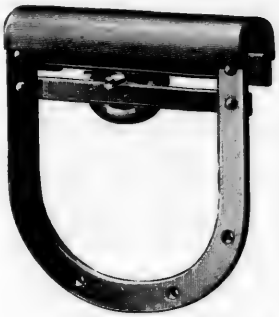
| Size, Diameter of Wheel | 4 | 5 | 6 inch. |
|---|---|---|---|
| Per dozen pair | $6.60 | 7.20 | 10.80 |

# BARN DOOR HANGERS

## STEEL BARN DOOR HANGERS

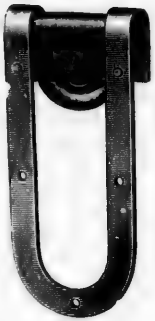
### COVERED

For Flat Steel Track.

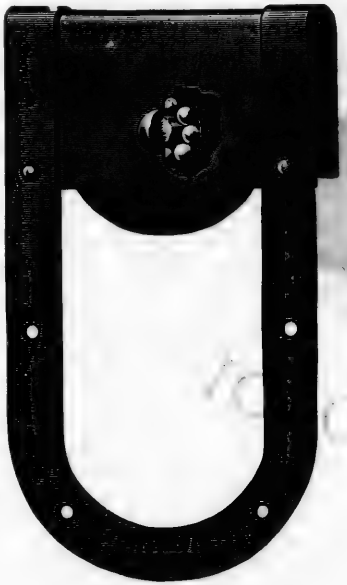


Nos. **11** to **12**

No. **11**—For Doors, to Slide 5 feet....per doz. pair $15.00
" **11½**— " " 10 " .... " 18.00
" **12**—(Extra Heavy Doors), 10 feet, " 22.00
" **25**—Light Pattern, Endless Run, " 10.00
" **30**— " with Roller Bearings " 13.00



No. **25**



No. **50**



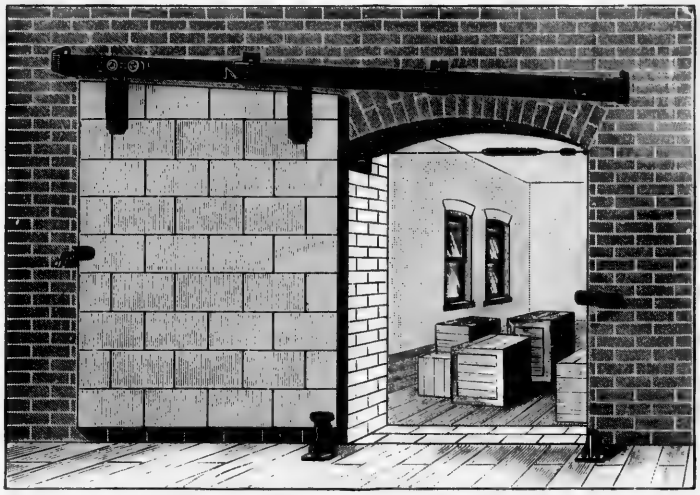
No. **143**

No. **50**—Heavy, with Roller Bearings, Endless Run.....per doz, pair $18.00
" **143**—O.K., for Light Doors, Roller Bearings, Endless Run..... " 12.00

# BARN AND FIRE DOOR HANGERS

## WILCOX TROLLEY ROLLER BEARINGS

### No. 124



SHOWING HANGERS IN OPERATION

| | | |
|---|---|---|
| No. **124**—One Pair Hangers | per pair | $4.00 |
| Extra Track Brackets | each | 0.25 |
| Trolley Track | per foot | 0.30 |

A pair of Hangers consists of: 2 Hangers and Carriers, 1 Right End Bracket, 1 Left End Bracket, 1 Centre Bracket, complete with Wood Screws for Hangers and Lag Screws for Brackets. Hangers and Track sold separately; Hangers having lateral adjustment, and are suitable for doors 2½ inches thick. For Self-closing Fire Doors use the above hangers and track and put up track on incline ¾ inch to the foot; when used for Double Doors a centre overhead stop is furnished in connection with brackets.

When ordering always give thickness of door, the exact widths of openings and state whether for double or single doors.

## AUTOMATIC LATCH AND FIXTURES

### No. 127

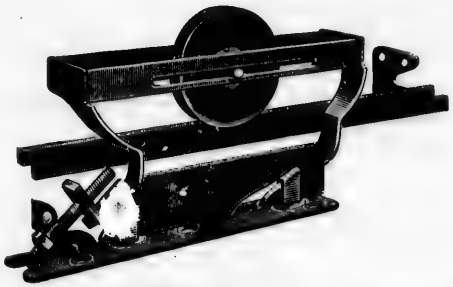
For Self-Closing Fire Doors, as shown in operation above.

| | | |
|---|---|---|
| No. **127**—One Set Fixtures, complete | per set | $10.80 |

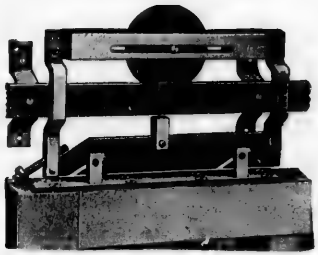
A set of Fixtures consists of: 2 Wall Stops, 1 Floor Stop, 1 Guide Roller, 1 Automatic Latch, 1 Steel Spring, 1 Steel Plate, 2 half-inch Expansion Bolts, 1 Expansion Screw Eye, 1 Fusible Link, 2 Link Hooks, 10 to 15 feet Sash Cord, 1 Cord Tightener.

This Latch and Fixtures can be used in connection with fire shutters. When ordering give thickness of wall, and state whether inner sides of opening are of covered wood, brick or stone.

# PARLOR DOOR HANGERS



WILCOX-RICHARD'S



LANE'S STANDARD

## FOR DOUBLE DOORS

Each Door to Slide 4 feet or less.

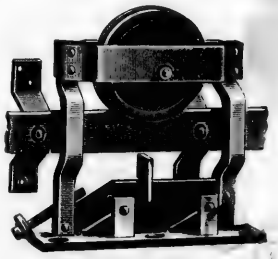
| | | | |
|---|---|---|---|
| No. **113**—Wilcox-Richard's, | 4 Hangers, complete with 14 feet of Steel Track | per set | $6.00 |
| " **114**—Lane's Standard, | 4 " " " 14 " " | " | 6.00 |
| " **313**—Canadian-Richard's, | 4 " " " 28 " Hardwood Track | " | 3.75 |

## FOR SINGLE DOORS

To Slide 4 feet or less.

| | | | |
|---|---|---|---|
| No. **213**—Wilcox-Richard's, | 2 Hangers, complete with 8 feet of Steel Track | per set | 3.00 |
| " **214**—Lane's Standard, | 2 " " " 8 " " | " | 3.00 |

## LANE'S BALL-BEARING PARLOR DOOR HANGERS



BALL-BEARING



NEW MODEL (ROLLER BEARINGS)

| | | | |
|---|---|---|---|
| No. **110**—Lane's Ball-Bearing, | 4 Hangers, complete with 14 feet of Track | per set | 7.50 |
| " **210**— " " | 2 " " " 8 " " | " | 3.75 |
| " **111**— " New Model, | 4 " " " 14 " " | " | 5.50 |
| " **211**— " " | 2 " " " 8 " " | " | 2.75 |

In the New Model, both Hangers of a pair are alike, and consequently no Rights or Lefts.

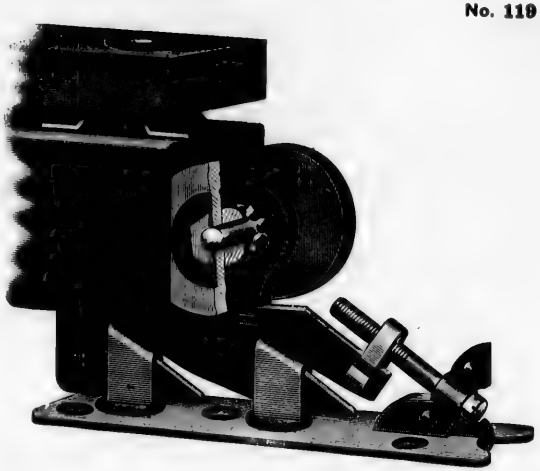


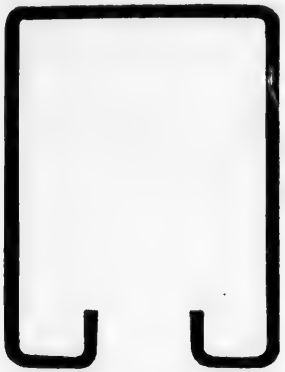
This illustrates the manner in which the Hangers are applied to the Door.

# HOUSE DOOR HANGERS

## WILCOX TROLLEY BALL-BEARING

**No. 119**





SECTION OF TRACK

| | | |
|---|---|---|
| No. **119**—For Double Doors, 4 to 6½ ft. Opening | per set | $6.00 |
| " **219**— " " 7 to 8 " " | " | 7.00 |

Half Sets, half price of Full Sets.

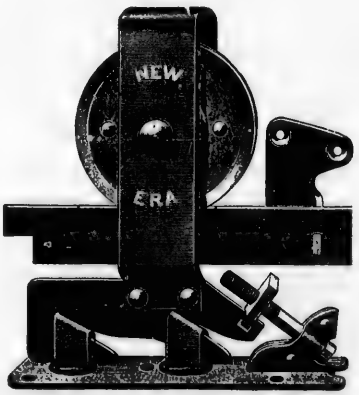
| | | |
|---|---|---|
| **Track** | per ft. | 0.25 |

Furnished in any length to 10 ft., without Joint.

This Hanger is made of Steel, the Wheels Vulcanized Fibre, are noiseless, and have Bicycle Ball Bearings. They are shipped with the Track attached to a Wooden Header, ready to fix to the Heading Timber.

## "NEW ERA" HOUSE DOOR HANGER

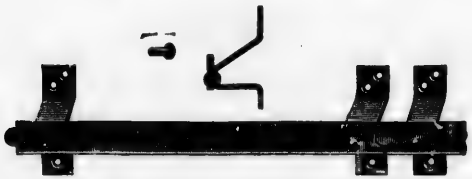
### ROLLER BEARINGS




**No. 117, SINGLE TRACK**

| | | |
|---|---|---|
| No. **117**—For Double Doors, Full Sets, 4 Hangers, complete with 14 ft. Track | per set | $6.00 |
| " **217**—For Single Doors, Half Sets, 2 Hangers, complete with 8 ft. Track | per half set | 3.00 |
| **Track** | per 100 ft. | 8.65 |

## STEEL TRACK



Lane's O.N.T. Steel Track

Wilcox Steel Hanger Track, in 4, 6, 8 and 10 ft. lengths ..... per 100 ft. $8.65
Lane's O.N.T. Steel " " " " ..... " 6.15

## CAST IRON TRACK



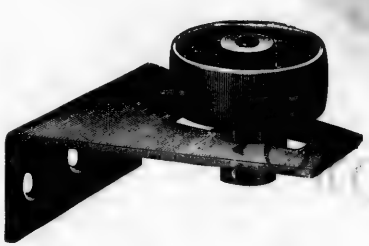
For Half-Round Groove Hangers.



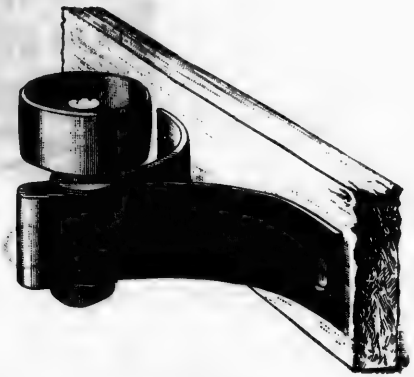
For Square Groove Hangers.

No. 1—Half-Round, in 2 ft. lengths ..... per ft. 0.06
" 2—Square " " ..... " 0.07

## BARN DOOR STAY ROLLERS



No. 153



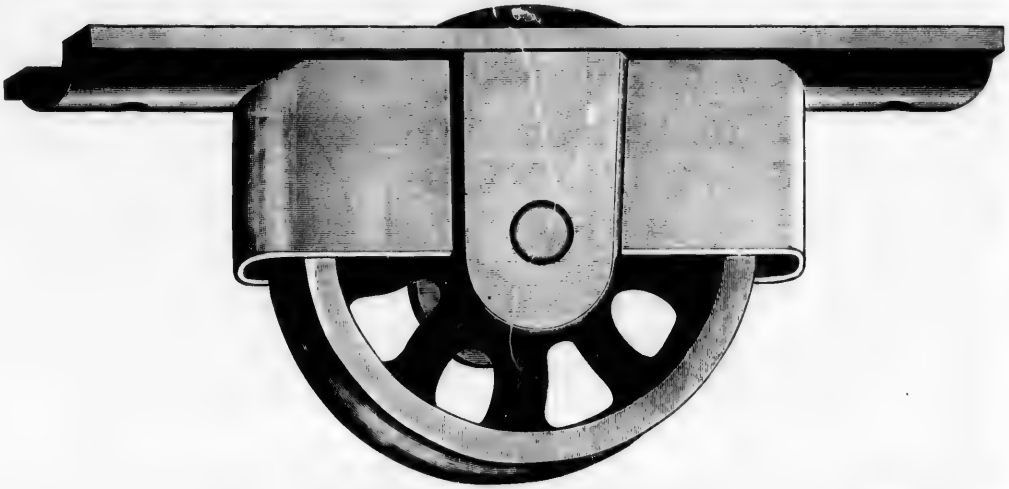
No. 154



No. 157

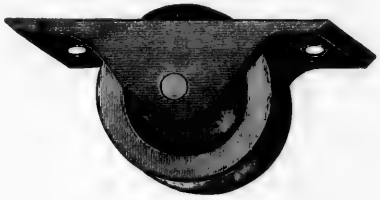
No. 153—Wilcox Steel Adjustable and Reversible Barn Door Stay Roller ..... per doz. 2.70
" 154—Lane's " " " " ..... " 3.15
" 157—For Outside Sliding Doors ..... " 1.50

# SLIDING DOOR SHEAVES

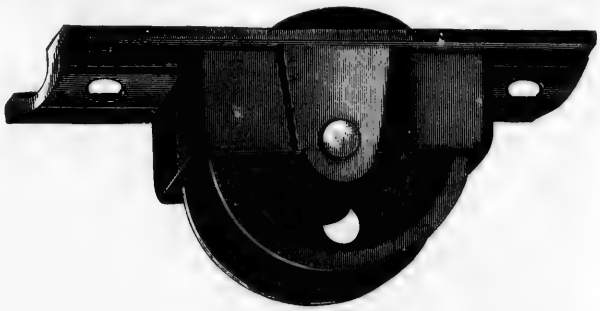


No. 7½—3 x ½ inch, Iron Wheel, Case Japanned, Brass Rivet, 1⅛ Face.....per set (4) $0.75
" 7½—4 x ½ " " " " " " ..... " 0.90

## SHUTTER SHEAVES



No. 586½



No. 588 and 588½

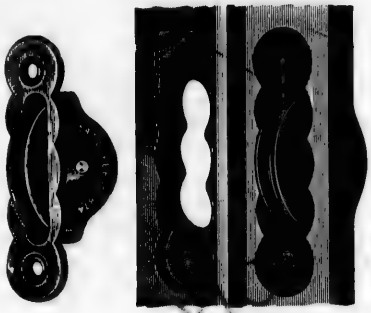
No. 586½—1¼ inch, Brass Wheel, Brass Case, Polished.....per single doz. 3.60
" 588 —1¾ " Iron Wheel, Iron Case, Japanned..... " " 1.80
" 588½—1¾ " Brass " " " ..... ..... " " 3.25

## SLIDING DOOR RAIL



No. 990½— ¾ inch Wide, Wrought Brass, in 2 ft. lengths, for 586½ Sheave.....per ft. 0.10
" 990 —1¼ " " Wrought Iron, Bronzed, in 2 ft. lengths, for 588 Sheave..... " 0.10

# AXLE PULLEYS



"THE COMMON SENSE"




"EMPIRE"

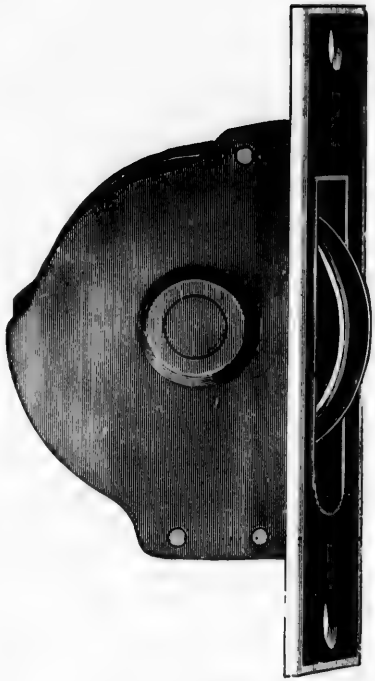
No. 1—Palmer's "Common Sense," all Iron, with Wrought Iron Axle, 2 inch Wheel.....per doz. $0.50
" 2—"Empire," all Iron, with Wrought Iron Axle, 2 inch Wheel..... " 0.60



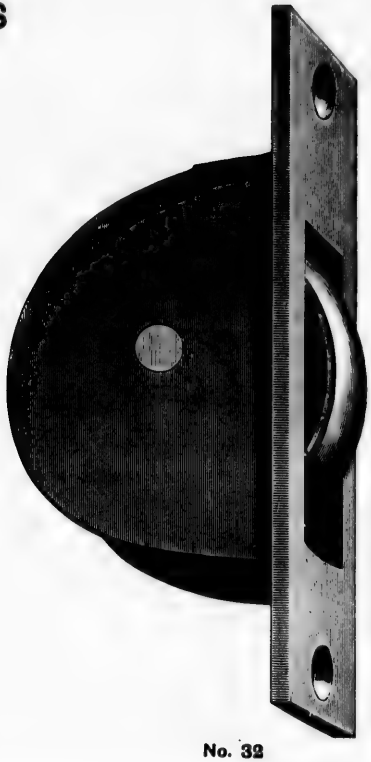
COMMON PATTERN

No. 3—Common Pattern, all Iron, Wrought Iron Axle, 1¾ inch Wheel.....per doz. 0.42
" 4— " " " " " 2 " " ..... " 0.46
" 5— " " " " " 2¼ " " ..... " 0.60

# AXLE PULLEYS

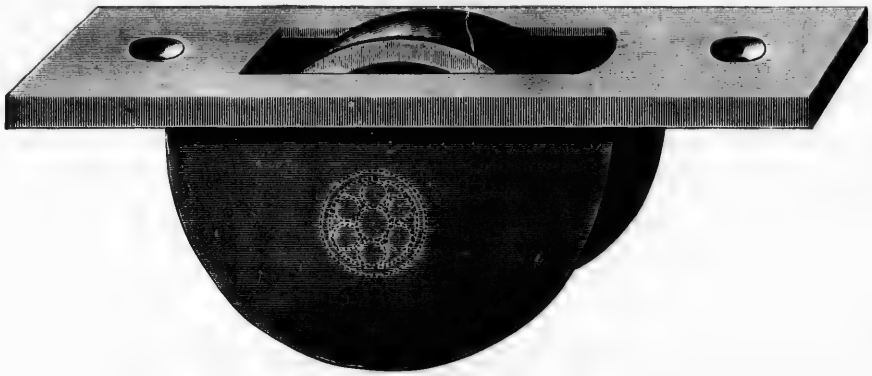


No. 22



No. 32

No. **22**—All Iron, Panel Face, 2 inch Wheels ..... per doz. $0.96
" **32**— " Amber Bronzed Face, 2¼ inch Turned Wheels ..... " 1.70



No. **626**

Anti-Friction Roller Bearings.

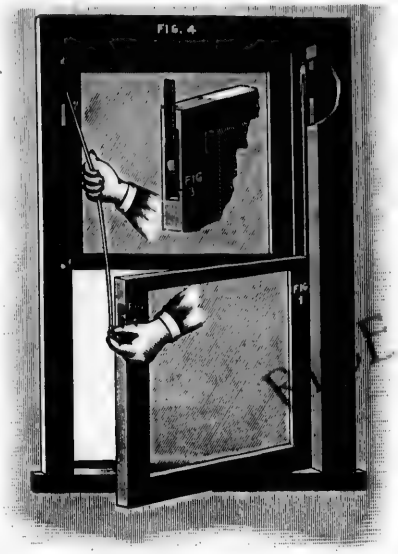
**ALL IRON, PAINTED FACE**

No. **626** —Square End, with 2¼ inch Turned Wheels ..... per doz. 2.50
" **626R**—Round " " 2½ " " " ..... " 2.85

**BRONZE METAL FACE**

No. **630**—Square End, with 3 inch Turned Brass Wheels ..... per doz. 12.00

# PULLMAN SASH BALANCES

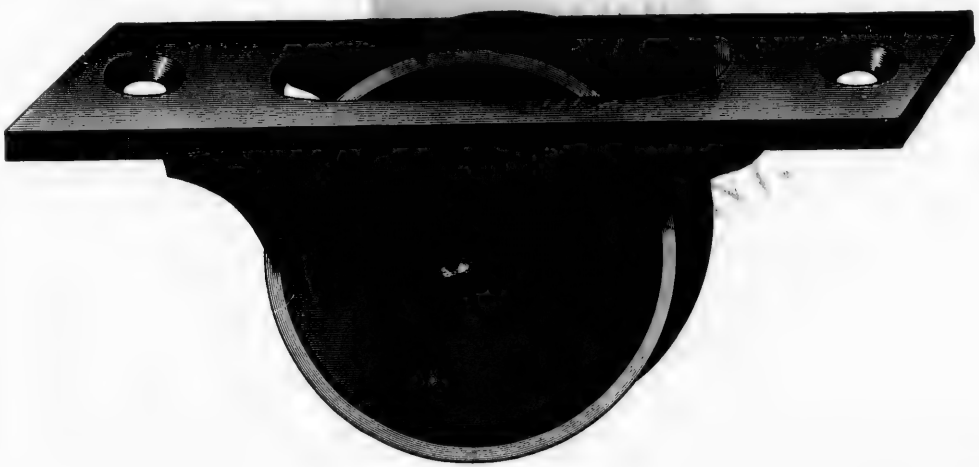





Adapted to old as well as new work. Can be used with or without Pockets or Box Frames or in any style of window.

| | | | | | Per set. |
|---|---|---|---|---|---|
| No. 3—Weight of Sash, | 10 to 11 lbs.; | Height of Sash, | 46 | inches. | $2.80 |
| " 4— " | " 12 to 13 " | " " | 46 | " | 3.10 |
| " 5— " | " 14 to 15 " | " " | 46 | " | 3.40 |
| " 6— " | " 16 to 17 " | " " | 46 | " | 3.70 |
| " 7— " | " 18 to 19 " | " " | 46 | " | 4.00 |
| " 8— " | " 20 to 21 " | " " | 46 | " | 4.70 |
| " 9— " | " 22 to 23 " | " " | 46 | " | 5.00 |

## DUMB WAITER PULLEYS

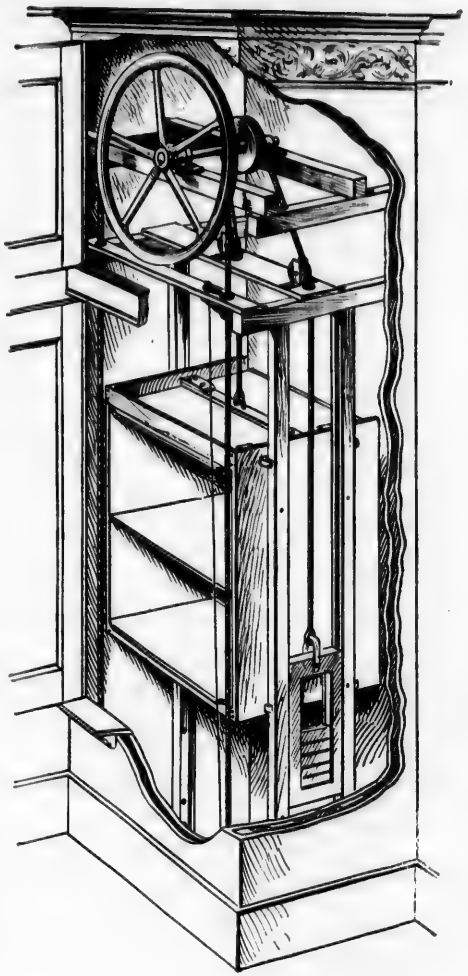


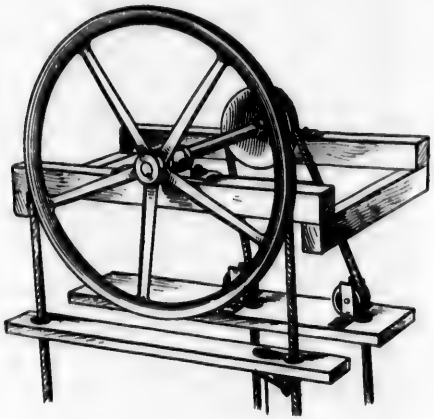
Full size.

No. **40**—3 inch Iron Wheel, Heavy, Face Measure 1¼ × 6 inches ..... per doz. 3.30

# DUMB WAITERS

## THE "EASY





One machine complete in box with full directions for erecting.

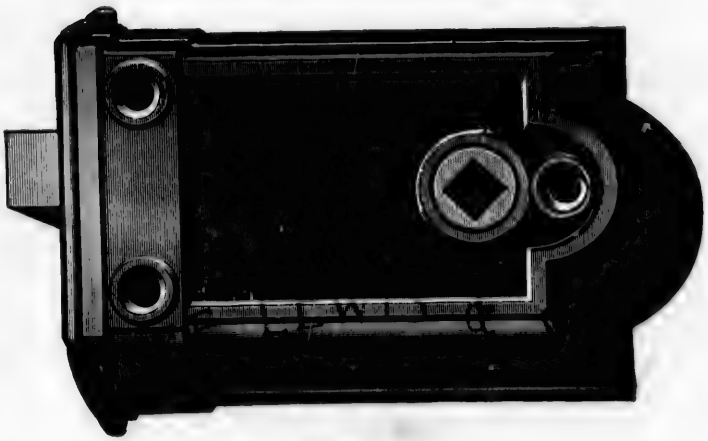
Each box contains:—

1 Hand Wheel, 20 inches diameter.
1 Hoist Wheel.
1 Steel Shaft, 18 inches long.
2 Babbitted Bearings.
1 Spring Check.
2 Pulleys.
4 Rope Leaders.
1 Staple for top of Car.
1 Coupling for Hand Rope.

| | |
|---|---|
| Machine, as enumerated above | $22.50 |
| Flat Adjustable Weight as shown in cut .....per lb. | 0.06 |

This machine will run perfectly for any height, and is so simple that any mechanic can erect. The weight can be put at either side, or at back by use of an extra pulley.

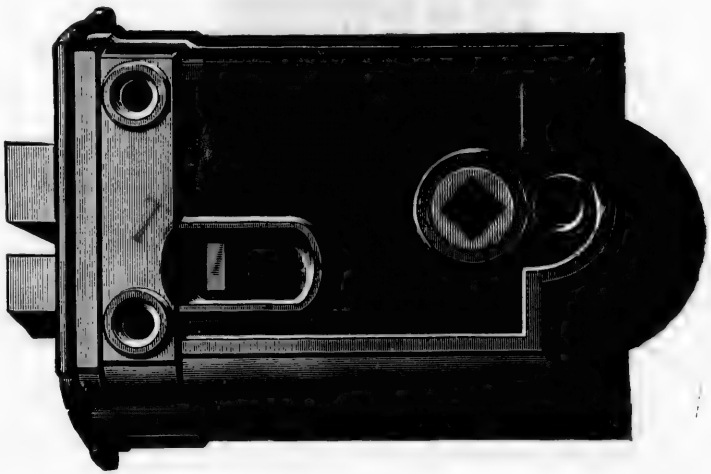
# HORIZONTAL RIM KNOB LATCHES



Full size cut.

| Peterboro'. | Gurney. | | |
|---|---|---|---|
| No. **70** | **R1a**—4 x 2½ inch, Iron Bolt ..... | doz. | $1.90 |
| " **71** | **R2a**—4 x 2½ " Brass " ..... | | 2.80 |

Half-dozen in a box.



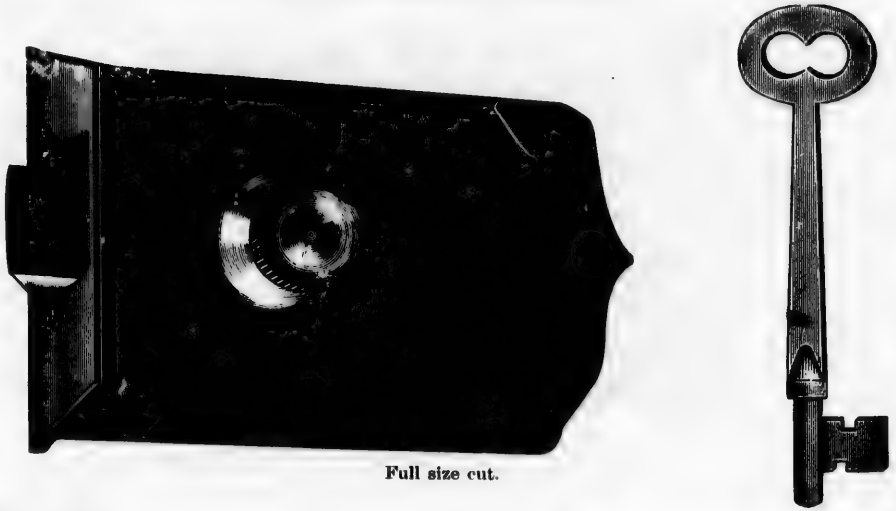
Full size cut.

| Peterboro'. | Gurney. | | |
|---|---|---|---|
| No. **75** | **R10a**—3⅜ x 2⅝ inch, Iron Bolt, with Flush Thumb Piece ..... | per doz. | 2.50 |
| " **76** | **R11a**—3⅜ x 2⅝ " Brass " ..... | " | 3.50 |

Half-dozen in a box.

# HORIZONTAL RIM NIGHT LATCHES

**FOR RIGHT OR LEFT HAND DOORS**

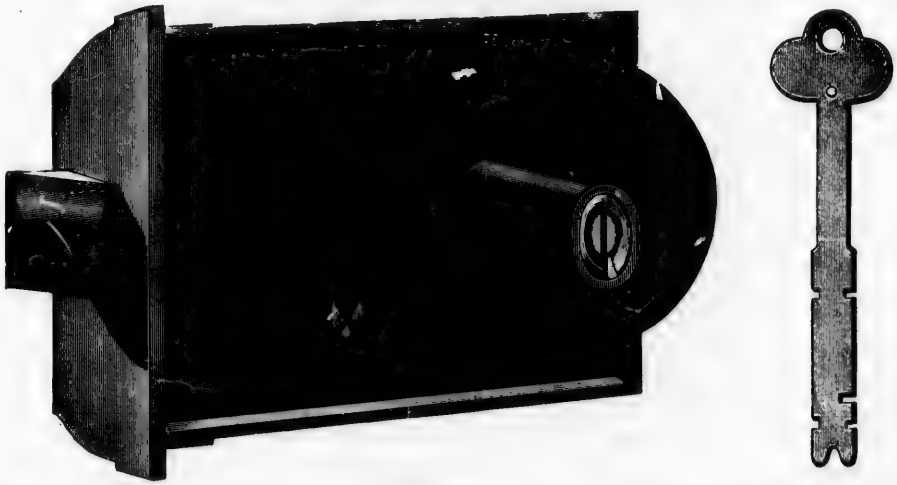


Full size cut.

| Peterboro'. | Gurney. | | |
|---|---|---|---|
| No. **90** | **R20a**—3½ x 2½ inch, Iron Bolt, Bronze Metal Turn Knob, 2 Nickel-Plated Steel Keys to each, Japanned Escutcheon ..... per doz. | | **$8.00** |

**Half-dozen in a box.**

# HORIZONTAL TUBULAR RIM NIGHT LATCHES

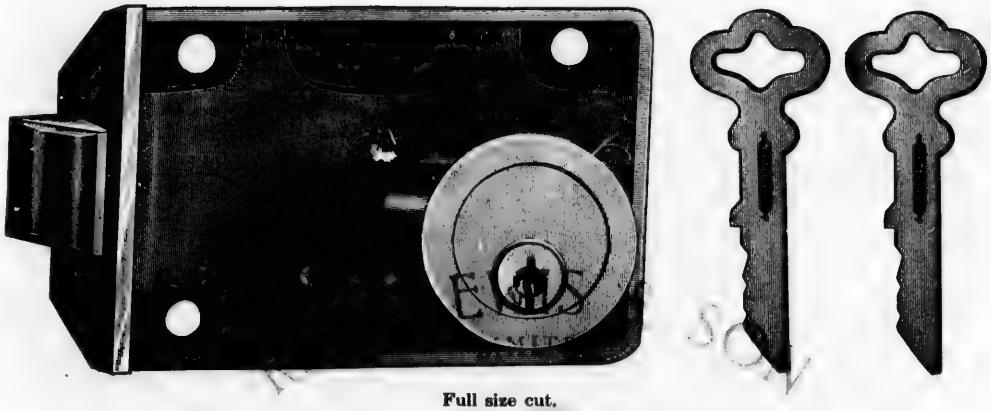


Full size cut.

| Peterboro'. | Gurney. | | |
|---|---|---|---|
| No. **90** | **R30**—3½ x 2½ inch, Iron Bolt, Bronze Metal Turn Knob and Escutcheon, 2 Nickel-Plated Steel Keys to each, 5 Tumblers ..... per doz. | | **$12.00** |
| " **91** | **R31**—Same as No. 90 and R30, with Brass Bolt ..... " | | **14.00** |

**Quarter-dozen in a box.**

# CYLINDER RIM NIGHT LATCH



Full size cut.

With Pin Thimbles, for Doors 1 to 1¾ inch.

Peterboro'.

No. **100**—3½ x 2½ inch, Iron Bolt, Bronze Metal Turn Knob, 2 Nickeled Steel Keys, 3 Pin Tumblers..per doz. **$12.00**

" **101**—3½ x 2½ " Bronze Metal Bolt, Bronze Metal Turn Knob, 2 Nickeled Steel Keys, 3 Pin Tumblers, per doz..... 14.00

# WROUGHT STEEL RIM NIGHT LATCH

## REVERSIBLE BOLT



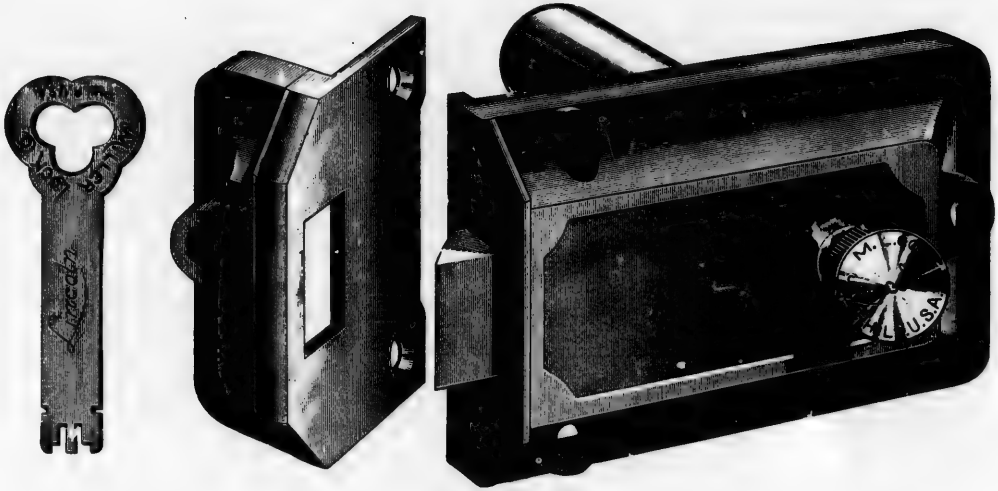

Full size cut.

No. **376**—3 x 2½ inch, Ivory Black Wrought Steel Case, Bronze Metal Bolt, Knob and Escutcheon, two Nickel-Plated Steel Keys to each, for Doors ⅞ to 2 inch.....per doz. **$11.00**

One in a box.

# RIM NIGHT LATCHES

## "LINCOLN"

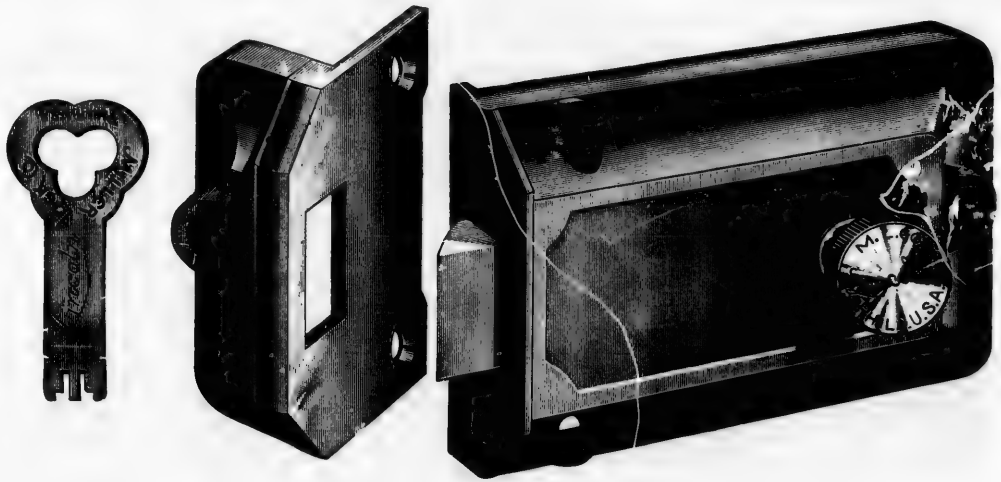


Full size cut.

### REVERSIBLE BOLT, TUBULAR PATTERN

No. **4978**—3½ inch, Iron Case, Bronze Metal Bolt, Knob and Escutcheon, 3 Nickel-Plated Steel Keys, for Doors ⅞ to 2 inch ..... per doz. $16.50

" **5978**—Same as above, only Bronze Metal throughout ..... " 22.50



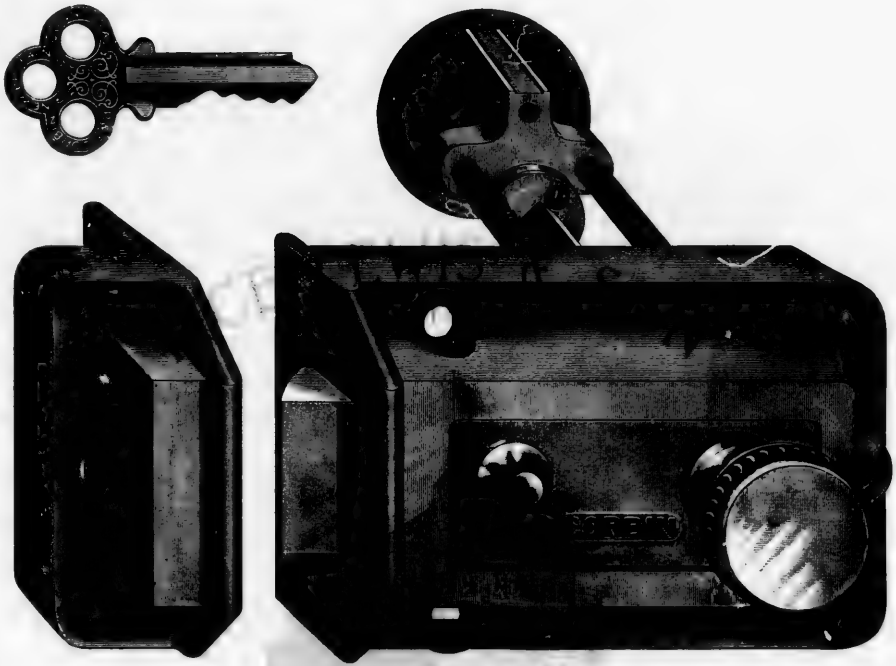
Full size cut.

### REVERSIBLE BOLT, CYLINDER PATTERN

No. **4778**—3½ inch, Iron Case, Bronze Metal Trimmings, 3 Nickel-Plated Steel Keys, for Doors ⅞ to 2 inch, per doz ..... $21.50

One in a box.

# RIM NIGHT LATCHES



**No. 356, full size cut.**

## "HARVARD"

**Suitable for Doors from 1 to 2¼ inch thick.**

| | | |
|---|---|---|
| No. **356¼**—2½ x 2⅞ inch, Iron Case, Bronze Metal Bolt, Knob and Cylinder, 3 Keys.....per doz. | | $28.50 |
| " **356** —2½ x 3⅛ " " " " " " " " " " | | 28.50 |

**When ordering Reverse Bevel add R. B. to above number.**

## YALE RIM NIGHT LATCHES

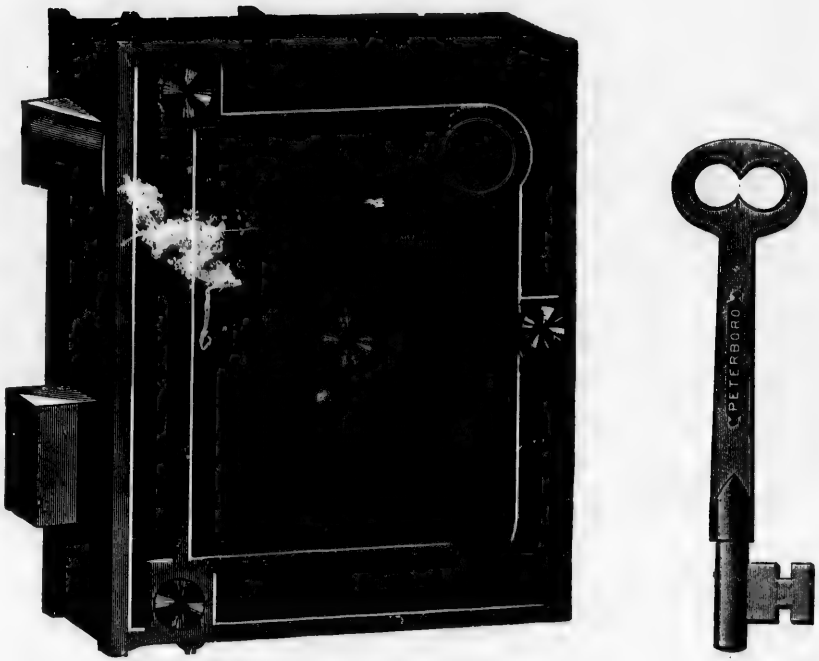
**Same style as above.**

| | | |
|---|---|---|
| No. **41**—2⅜ x 3⅛ inch, Iron Case, Bronze Metal Bolt and Knob, Plated Cylinder, 3 Keys.....per doz. | | 40.25 |
| " **42**—2⅜ x 3⅛ " " " " Knob and Cylinder, 3 Keys ..... " | | 35.50 |

# UPRIGHT RIM KNOB LOCKS

## FOR RIGHT OR LEFT HAND DOORS

**Packed with Screws and Japanned Escutcheon.**




Full size cut.

### JAPANNED CASE

To Reverse, remove the Cap.

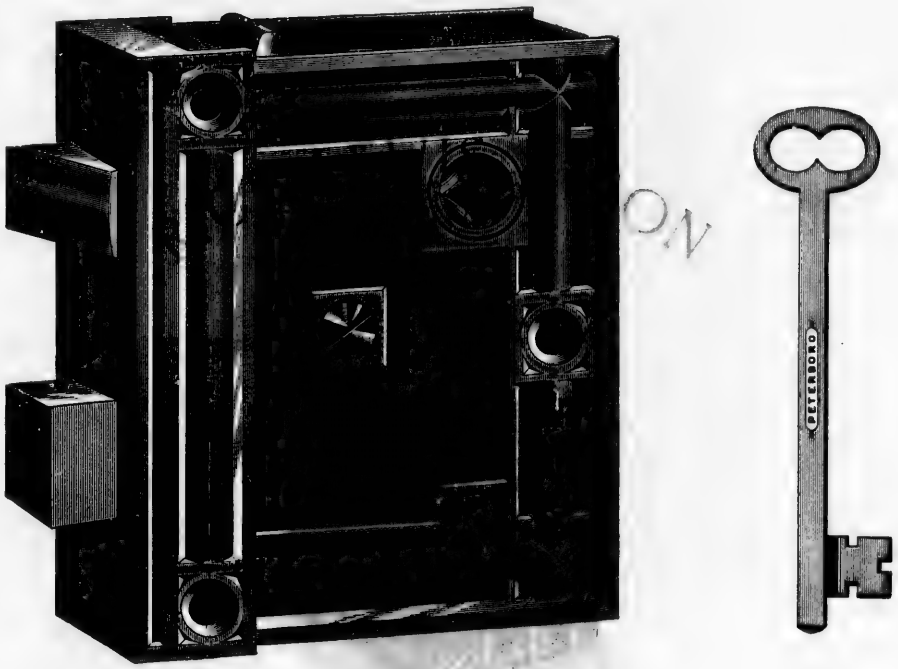
| Peterboro'. | Gurney. | | | |
|---|---|---|---|---|
| No. **1216** | **R36a**—4 x 3 inch, Iron Bolts, without Stop, Tinned Keys | per doz. | $2.40 |
| " **1221** | **R41a**—4 x 3 " " with " " | " | 2.50 |
| " **1422** | .... —4 x 3 " Iron Bolts, with Stop, Flat Nickeled Steel Key | " | 2.80 |
| " **1423** | .... —4 x 3 " Brass " " " " | " | 4.50 |

**Half-dozen in a box.**

# UPRIGHT RIM KNOB LOCKS

## FOR RIGHT OR LEFT HAND DOORS

**Packed with Screws and Japanned Escutcheon.**




**Full size cut of 4½ x 3½.**

### JAPANNED CASE

**To Reverse, remove the Cap.**

| Peterboro'. | Gurney. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. **1426** | R **60½**—4½ x 3½ inch, Iron Bolts, with Stop, Nickel-Plated Flat Steel Keys..... | | | | | | | | | per doz. | $3.40 |
| " **1427** | R **61** —4½ x 3½ | " | Brass | " | " | " | " | " | ..... | " | 4.90 |
| " **1225** | R**660½**—4½ x 3½ | " | Iron | " | " | Tinned Malleable Key..... | | | | " | 3.50 |
| " **1226** | R**660** —4½ x 3½ | " | " | " | " | Nickel-Plated Steel Key..... | | | | " | 4.50 |
| " **1227** | R**661** —4½ x 3½ | " | Brass | " | " | " | " | ..... | | " | 5.50 |

oz. $2.40
2.50
2.80
4.50

## KEEPERS ONLY

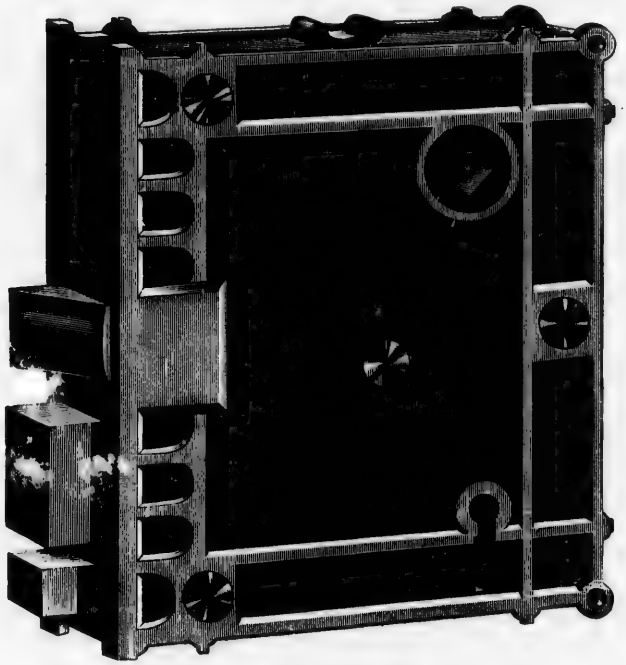
Keepers only, for No. 1225 Locks .....per doz. 0.50

**Locks, half-dozen in a box.**

# URPRIGHT RIM KNOB LOCKS

## FOR RIGHT OR LEFT HAND DOORS

Packed with Screws and Japanned Escutcheons.



Full size cut of 4½ x 3½ inch.

### JAPANNED CASE




To reverse, remove the Cap.

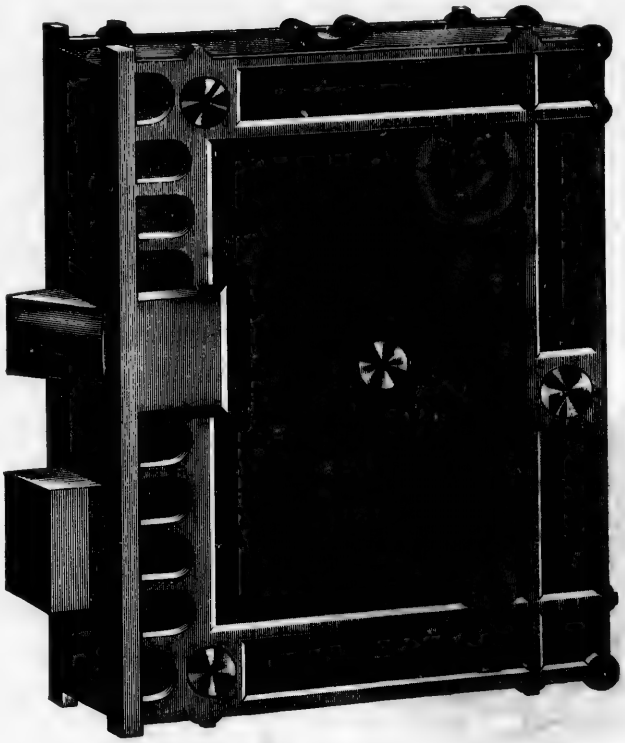
| Peterboro. | Gurney. | | | | | | |
|---|---|---|---|---|---|---|---|
| No. 1235 | R770—4½ x 3½ | inch, | 3 | Iron Bolts, | Tinned Malleable Iron Keys | per doz. | $5.50 |
| " 1236 | R771—4½ x 3½ | " | 3 | " | Nickel-Plated Steel Keys | " | 6.50 |
| " 1237 | R772—4½ x 3½ | " | 3 | Brass Bolts, | " " | " | 8.00 |

Half-dozen in a box.

# UPRIGHT RIM KNOB LOCKS

## FOR RIGHT OR LEFT HAND DOORS

**Packed with Screws and Japanned Escutcheons.**





**Cut full size of 4½ x 3½.**

### JAPANNED CASE

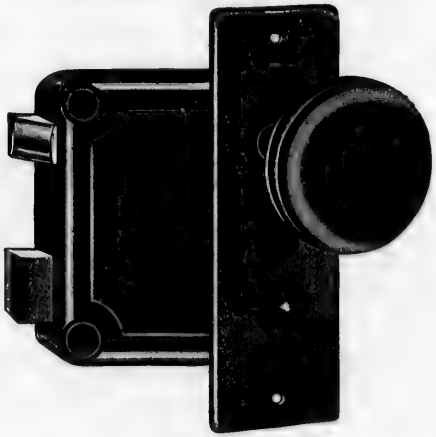
**Reverse by Drawing Slide at Back and Turn Latch.**

| Peterboro'. | Gurney. | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. **1241** | **R1100**—4½ x 3½ inch, | 2 | Iron | Bolts, | Nickeled | Steel | Key, | 1 | Tumbler, | 12 | Changes..... | per doz. **$6.25** |
| " **1242** | **R1101**—4½ x 3½ " | 2 | Brass | " | " | " | | 1 | " | 12 | " ..... | " **7.50** |
| " **1246** | **R1111**—4½ x 3½ " | 3 | Iron | " | " | " | | 1 | " | 12 | " ..... | " **7.00** |
| " **1247** | **R1112**—4½ x 3½ " | 3 | Brass | " | " | " | | 1 | " | 12 | " ..... | " **8.50** |
| " **1251** | **R1120**—5 x 4 " | 2 | Iron | " | " | " | | 1 | " | 12 | " ..... | " **9.50** |
| " **1252** | **R1121**—5 x 4 " | 2 | Brass | " | " | " | | 1 | " | 12 | " ..... | " **11.00** |
| " **1261** | **R1130**—5 x 4 " | 3 | Iron | " | " | " | | 1 | " | 12 | " ..... | " **10.50** |
| " **1262** | **R1131**—5 x 4 " | 3 | Brass | " | " | " | | 1 | " | 12 | " ..... | " **12.50** |
| " **1281** | **R1137**—6 x 4 " | 2 | Iron | " | " | " | | 1 | " | 12 | " ..... | " **11.50** |

**Half-dozen in a box.**

# WROUGHT STEEL RIM KNOB LOCKS

## FOR RIGHT OR LEFT HAND DOORS



Set No. **2120**

### OLD COPPER FINISH

No. **2120**—4 x 4 inch, Lock, Knobs and Escutcheon, O. C. ..... per doz. set $16.20
" **1105**—4 x 4 " " " only, same style as above, Japanned ..... per doz. 5.70




**No. 3800**, full size cut.

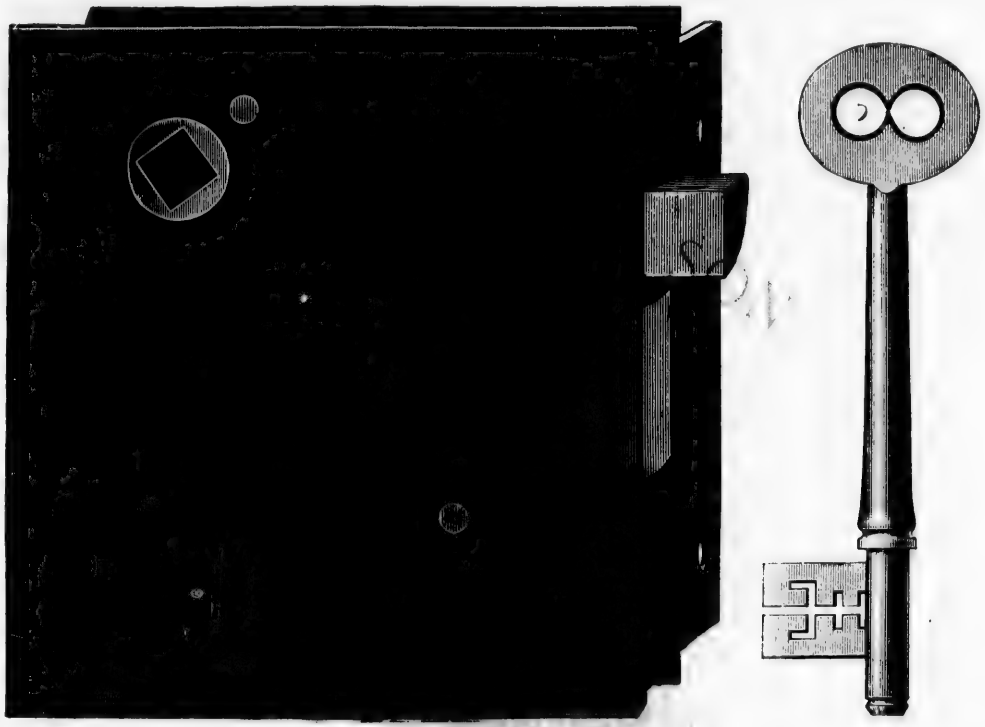
### IVORY BLACK CASE

No. **3800**—4 x 3½ inch, Iron Bolts, with Stop, Nickel-Plated Key ..... per doz. 3.50
" **3804**—4 x 3½ " Brass " " " " ..... " 5.70

# WROUGHT IRON RIM KNOB LOCKS

### CARPENTER'S PATTERN

**Not Reversible, Japanned Cases, Iron Bolts, Wrought Iron Keys, packed with Screws.**



| Size | 5 x 4 | 5 x 4¼ | 6 x 4¼ | 6 x 4¾ | 7 x 5¼ | 8 x 5⅝ | 9 x 5½ inch. |
|---|---|---|---|---|---|---|---|
| No. 60 ..... per doz. | .... | $15.00 | .... | 15.00 | 19.50 | 34.00 | 49.00 |
| " 60A ..... " | 9.00 | ..... | 9.00 | ..... | ..... | ..... | ..... |

## TILDESLEY'S DOUBLE HANDED IRON RIM LOCKS

| | | |
|---|---|---|
| No. J14—5 inch, for Right or Left Hand Doors ..... | per doz. | $13.60 |
| " J14—6 " " " " " ..... | " | 14.00 |
| Lock Keepers, suitable for Locks Nos. 60 to J14 ..... | " | 2.60 |

## RIM DEAD LOCKS

As above cut, without Knob Latch.

| Size | 5 x 3¾ | 6 x 4 | 7 x 4½ | 8 x 5⅝ | 9 x 5½ | 10 x 5¾ inch. |
|---|---|---|---|---|---|---|
| No. 151—One Keyed ..... per doz. | $10.00 | 12.00 | 14.50 | 22.80 | .... | 44.00 |
| " 154—Two " ..... " | ..... | ..... | ..... | 25.50 | 35.50 | 49.00 |

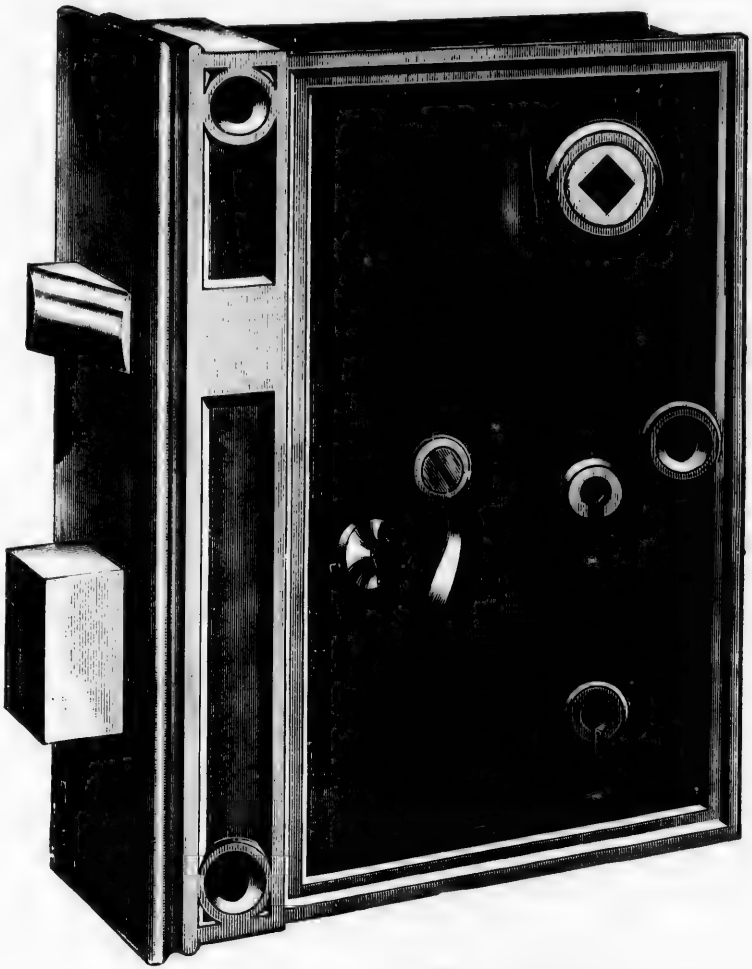
## KEYS

| For Locks ..... | 5 | 6 | 7 | 8 inch. |
|---|---|---|---|---|
| No. 60 —Plain ..... ..... per doz. | $1.40 | 1.70 | 1.90 | 2.40 |
| " 60A—Plated ..... " | 1.50 | 1.50 | .... | .... |
| " 60A—Plain ..... " | 0.90 | 0.90 | .... | .... |

Locks to 7 inch, half-dozen in a box; larger sizes, one-quarter dozen.

In ordering Nos. 60 or 60A Locks, mention if for Right or Left Hand Doors.

# FRONT DOOR UPRIGHT RIM KNOB LOCKS



**No. 1370.** Full size cut.

**WITH NIGHT WORKS**







**REVERSIBLE LATCH BOLT**




| Peterboro'. | Gurney. | Per doz. |
|---|---|---|
| No. **1270** | **R1140**—5 x 4 inch, 2 Iron Bolts, Bronze Metal Turn Knob, 2 Nickeled Steel Night Keys, 1 Steel Tumbler, 1 Nickeled Steel Key for Dead Bolt, 1 Steel Tumbler, 12 Changes | $20.00 |
| " **1370** | .....—6 x 4 inch, 2 Iron Bolts, Bronze Metal Turn Knob, 2 Nickeled Steel Night Keys, 1 Steel Tumbler, 1 Nickeled Steel Key for Dead Bolt, 1 Steel Tumbler, 12 Changes | 22.00 |

# BRASS MORTISE SHIP LOCKS

**Full size cuts.**

**Furnished with Brass Knobs and Brass Spindles, if desired.**



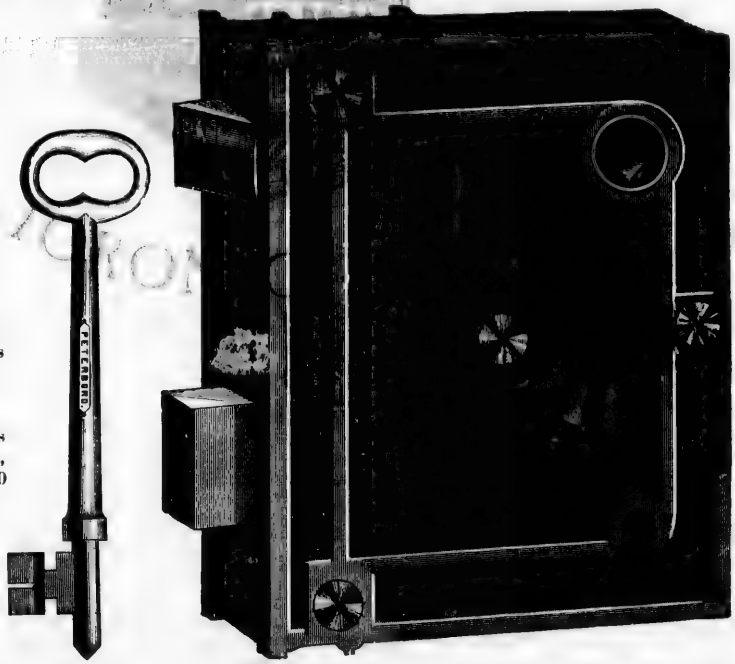


No. **1200**—3½ x 3¼ inch, Brass Front, Bolts and Case, Brass Keys per doz.....$24.00

## BRASS RIM SHIP LOCKS

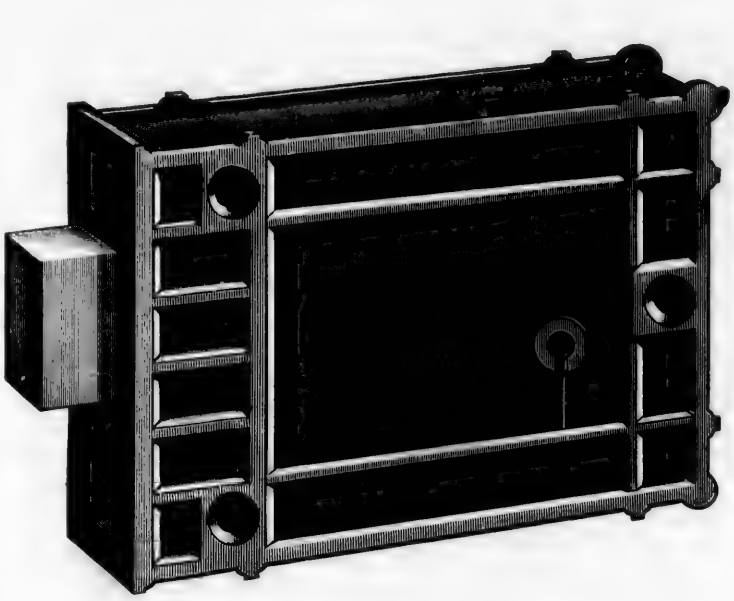
**Furnished with Brass Knobs and Brass Spindles, if desired.**

No. **1205**—4¼ x 3¼ inch, Brass Bolt and Case, Brass Key, per doz.....$24.00



# HORIZONTAL RIM DEAD LOCKS

**RIGHT OR LEFT HAND**






**4 x 3 inch. Full size cut.**

| Peterboro'. | Gurney. | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| No. **120** | **R2200½**—3½ x 2½ inch, | Iron Bolt, | Tinned Malleable Key, | 1 | Tumbler. | ..... | per doz. | $2.00 |
| " **121** | **R2200** —3½ x 2½ " | " | Nickeled Steel Key, | 1 | " | ..... | " | 2.80 |
| " **130** | **R2220½**—4 x 3 " | " | Tinned Malleable Key, | 1 | " | ..... | " | 3.00 |
| " **131** | **R2220** —4 x 3 " | " | Nickeled Steel Key, | 1 | " | ..... | " | 3.80 |
| " **140** | **R2230½**—5 x 3½ " | " | Tinned Malleable Key, | 1 | " | ..... | " | 4.00 |
| " **141** | **R2230** —5 x 3½ " | " | Nickeled Steel Key, | 1 | " | ..... | " | 4.80 |

**Packed with Screws and Japanned Escutcheons.**

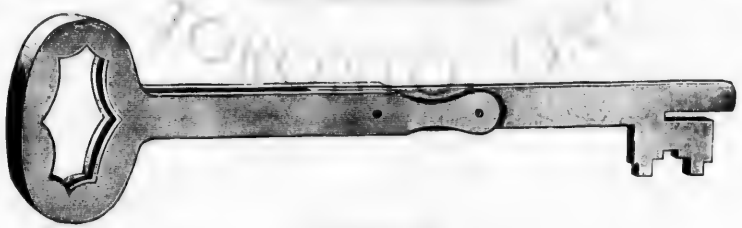
**Half-dozen in a box.**

# UPRIGHT RIM STORE DOOR DEAD LOCKS

**RIGHT OR LEFT HAND**



**5 x 3 inch. Full size cut.**



**FOLDING KEY**

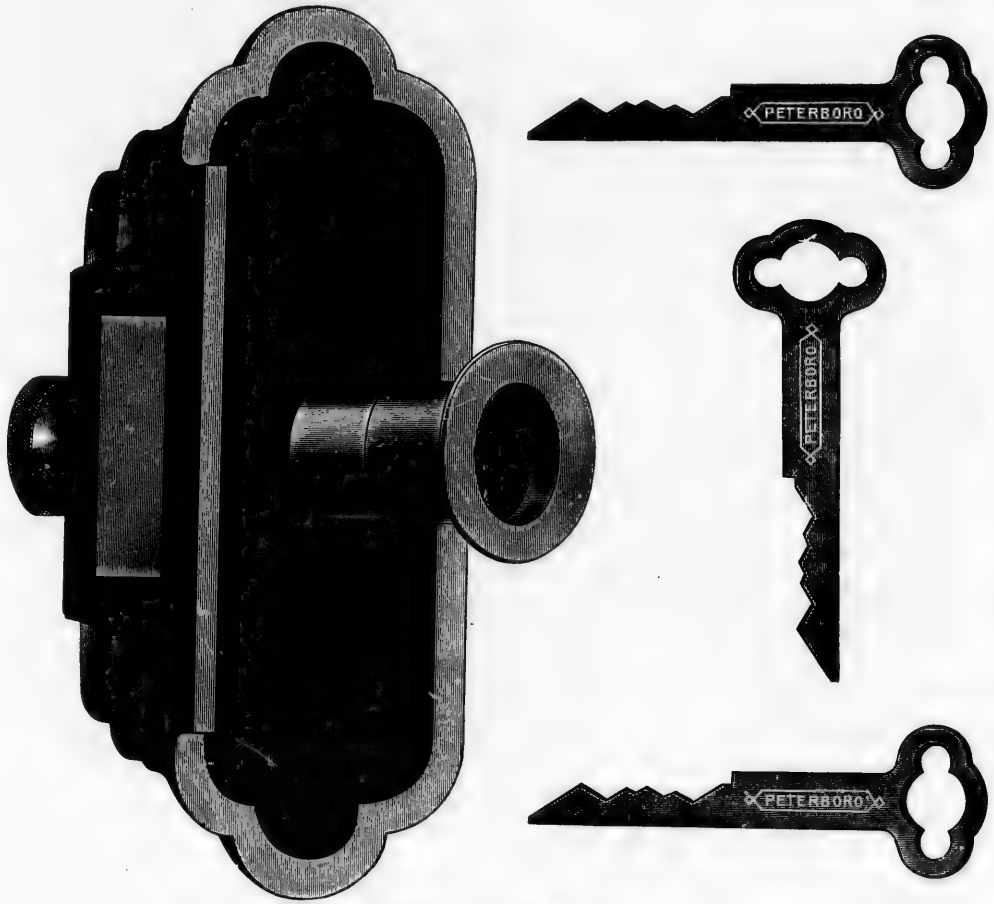
| Peterboro'. No. | Gurney. | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. **441** | **R440**—4 x 2½ inch, | Iron | Bolt, | 2 | Folding | Nickeled | Plated | Keys, | 1 | Tumbler, | per doz. | $12.50 |
| " **442** | **R441**—4 x 2½ " | Brass | " | " | " | " | " | " | " | " | " | 17.50 |
| " **451** | **R450**—5 x 3 " | Iron | " | " | " | " | " | " | " | " | " | 13.00 |
| " **452** | **R451**—5 x 3 " | Brass | " | " | " | " | " | " | " | " | " | 18.00 |
| " **461** | **R460**—6 x 3½ " | Iron | " | " | " | " | " | " | " | " | " | 15.00 |
| " **462** | **R461**—6 x 3½ " | Brass | " | " | " | " | " | " | " | " | " | 22.00 |

**Packed with Screws and Japanned Escutcheons.**

**One in a box.**

# STORE DOOR DEAD LOCKS

## UPRIGHT CYLINDER RIM, PIN TUMBLER




6 x 2¾ inch. Full size cut.

### HANDED, NOT REVERSIBLE

Operated from Outside by Key, Inside by Turn Knob.

### FOR DOORS 1½ TO 2½ INCHES

Peterboro'.

No. **470**—Iron Bolt, Bronze Metal Turn Knob, 3 Nickeled Steel Keys, Pin Tumblers, 100 Changes . . per doz. $30.00
" **471**—Bronze Bolt, " " " 3 " " " 100 " . . " 33.00

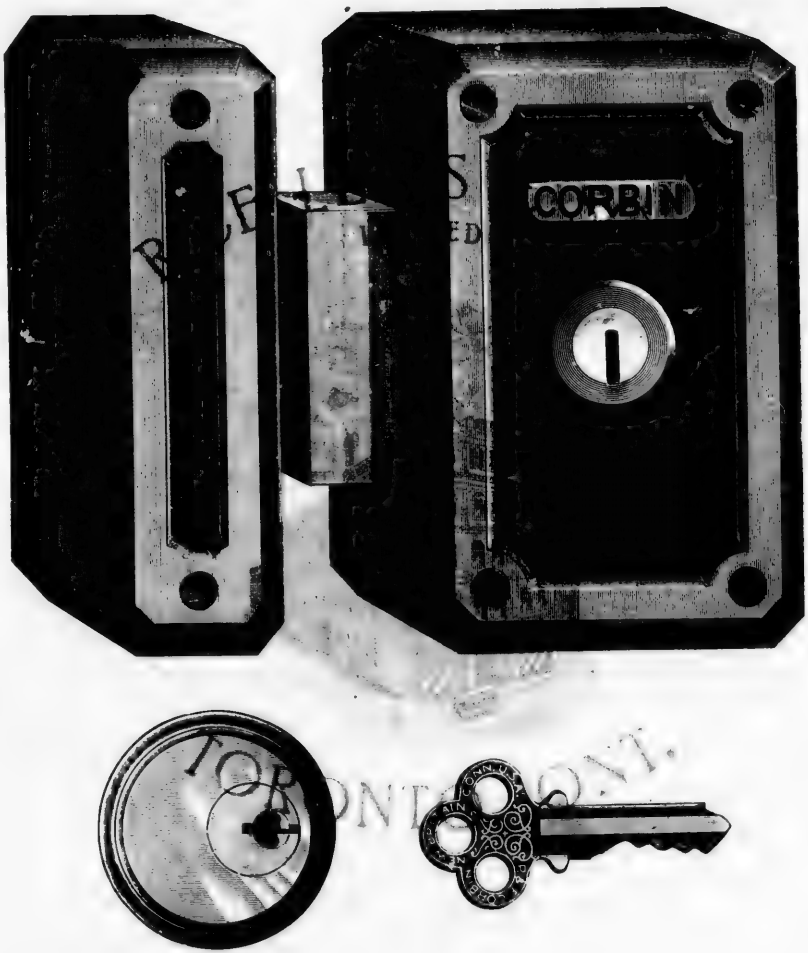
Packed one in a box, with Screws.

In ordering, state Hand wanted.

# RIM STORE DOOR DEAD LOCKS

## "HARVARD"

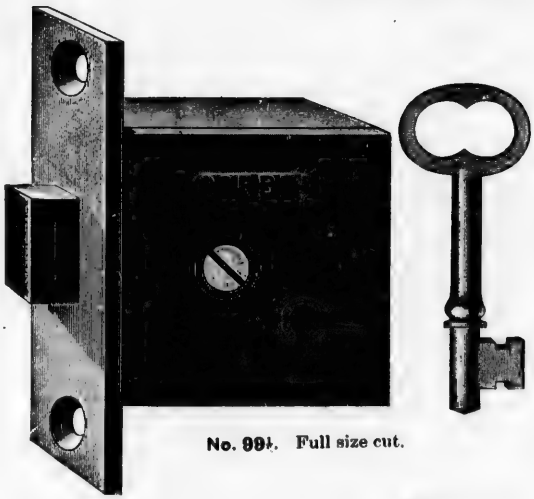
**For Right or Left Hand Doors.**




Corbin's,
**No. 1434—4 x 2½ inch, Bronze Metal Bolt, Bronze Metal Cylinder, 3 Keys ..... per doz. $50.00**

**One in a box, with Screws.**

# MORTISE DEAD LOCKS



No. 99½. Full size cut.

Corbin's.

No. 99½—1¾ x 2 inch, Brass Front and Strike, Iron Bolt, Nickel-Plated Steel Key..per doz. $5.40




No 134B. Full size cut.

Corbin's.

No. 134B—2¼ x 3½ inch, Bronze Metal Front, Strike and Bolt, 1 Tumbler, Nickel-Plated Steel Key, per doz. 9.80
" 145B—3 x 3½ " " " " " " " 4 " 2 " " " " 26.00

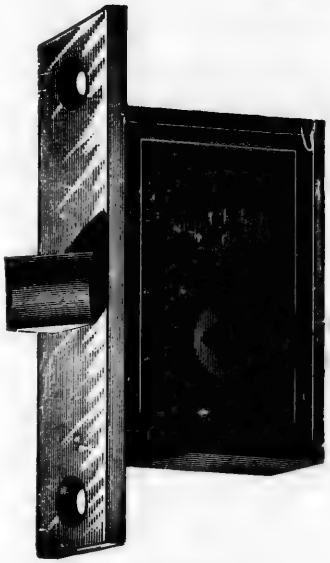
Peterboro'. Gurney.

No. 50 .....—3¼ x 2½, Iron Front and Bolt, Nickel-Plated Steel Key, 1 Tumbler ..... " 3.00
" 54 .....—3¼ x 2½, Brass Front, Bolt and Strike, Nickel-Plated Steel Key, 1 Tumbler..... " 5.00
" 61 M51—2¾ x 2¾, Heavy, Brass Front, Strike and Bolt, 2 Nickel-Plated Steel Keys, 1 Tumbler " 12.00

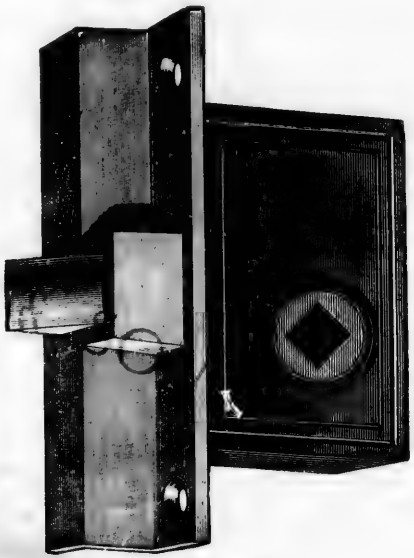
Half-dozen in a box.

# MORTISE KNOB LATCHES

## FOR FRENCH WINDOWS OR NARROW STILE DOORS



Nos. 16 and 17



Nos. 18 and 19

### RIGHT OR LEFT HAND, JAPANNED CASE

| Peterboro'. | | | |
|---|---|---|---|
| No. 16—2¼ x 1½ inch, Flat Iron Front and Strike, Brass Bolt and Hub | per doz. | $ | 8.00 |
| " 17—2¼ x 1½ " " " Brass " " " " " | " | | 9.00 |
| " 18—2¼ x 1½ " Rabbeted Iron Front and Strike, Brass Bolt and Hub | " | | 12.00 |
| " 19—2¼ x 1½ " " Brass " " " " " | " | | 14.00 |

### RIGHT OR LEFT HAND



| Peterboro'. | Gurney. | Per doz. |
|---|---|---|
| No. 0 | M80—3½x1½, Flat Lacquered Iron Front and Strike, Iron Bolt | $1.30 |
| " 1 | M90—3½x1½, Flat Lacquered Iron Front and Strike, Iron Bolt | 2.10 |
| " 4 | M93—3½x1½, Flat Brass Front and Strike, Brass Bolt | 3.50 |
| " 6 | .....—3½x1½, Flat Lacquered Iron Front and Strike, Brass Bolt | 3.00 |
| " 12 | M280—2¾x1½, Rabbeted Lacquered Iron Front and Strike, Iron Bolt | 4.00 |
| " 13 | M291—2¾x1½, Rabbeted Lacquered Iron Front and Strike, Brass Bolt | 5.00 |
| " 14 | M292—2¾x1½, Rabbeted Brass Front and Strike, Brass Bolt | 8.50 |

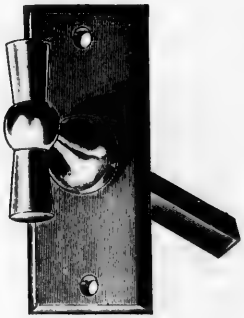
From No. 0 to 6, one dozen; 12 to 14, half-dozen in a box.

3½ x 1½ inch, ROUND EDGE. Full size cut.

# MORTISE LATCHES




No. 68½B

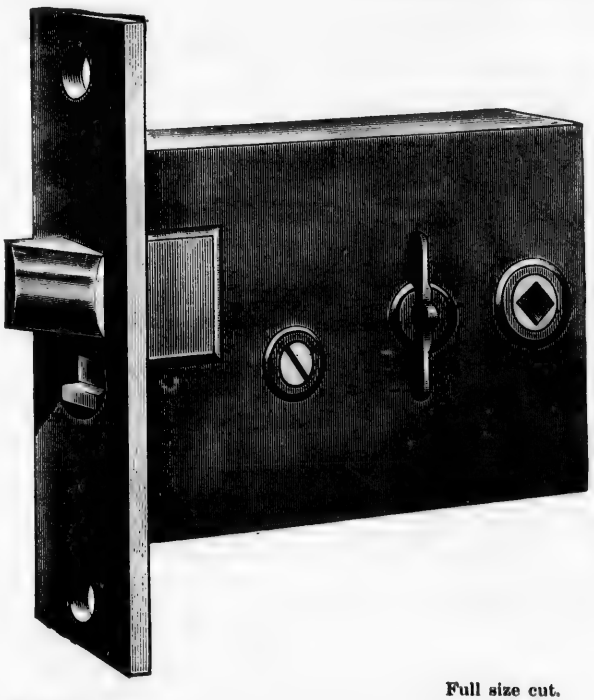


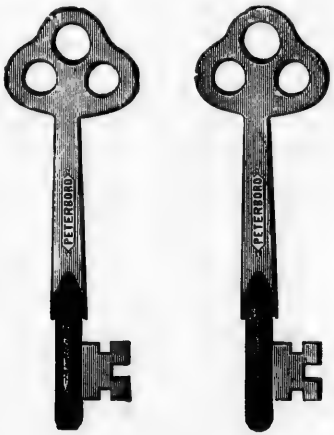
No. 2414½

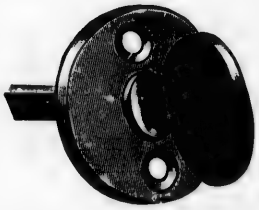
Hub for $\frac{5}{16}$ inch Spindle.

No. **68½B**—1⅛ x 1½ inch, Bronze Metal Front, Strike and Bolt, with No. 2414½ Bronze Metal T Handle, Distance from Front to Centre of Hub $1\frac{5}{16}$ inch ..... per doz. $12.00

## MORTISE NIGHT LATCH





Full size cut.

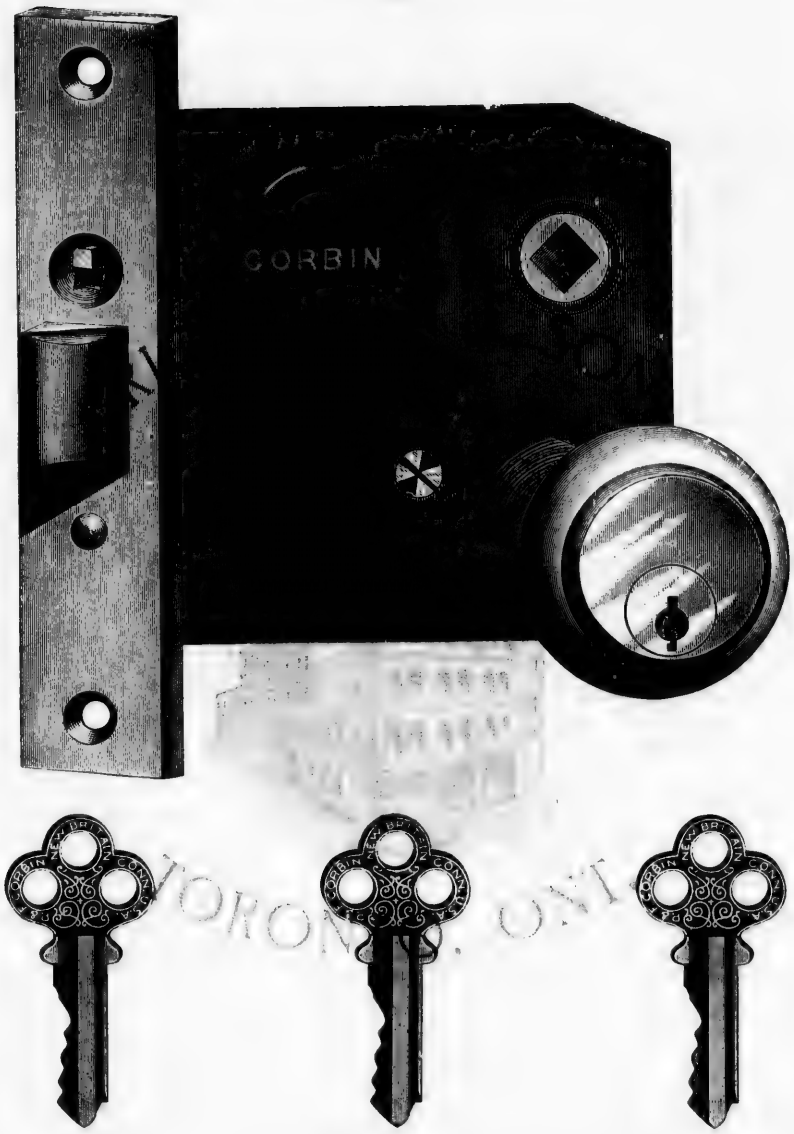
Peterboro'.

No. **25**—3½ x 2⅜ inch, Brass Front, Strike and Bolt, Bronze Thumb Knob, 2 Nickeled Steel Keys, 1 Steel Tumbler ..... per doz. 8.50

For Right or Left Hand Doors. Packed with Screws and Japanned Escutcheon.
Half-dozen in a box.

# MORTISE NIGHT LATCHES

**Full size cut.**

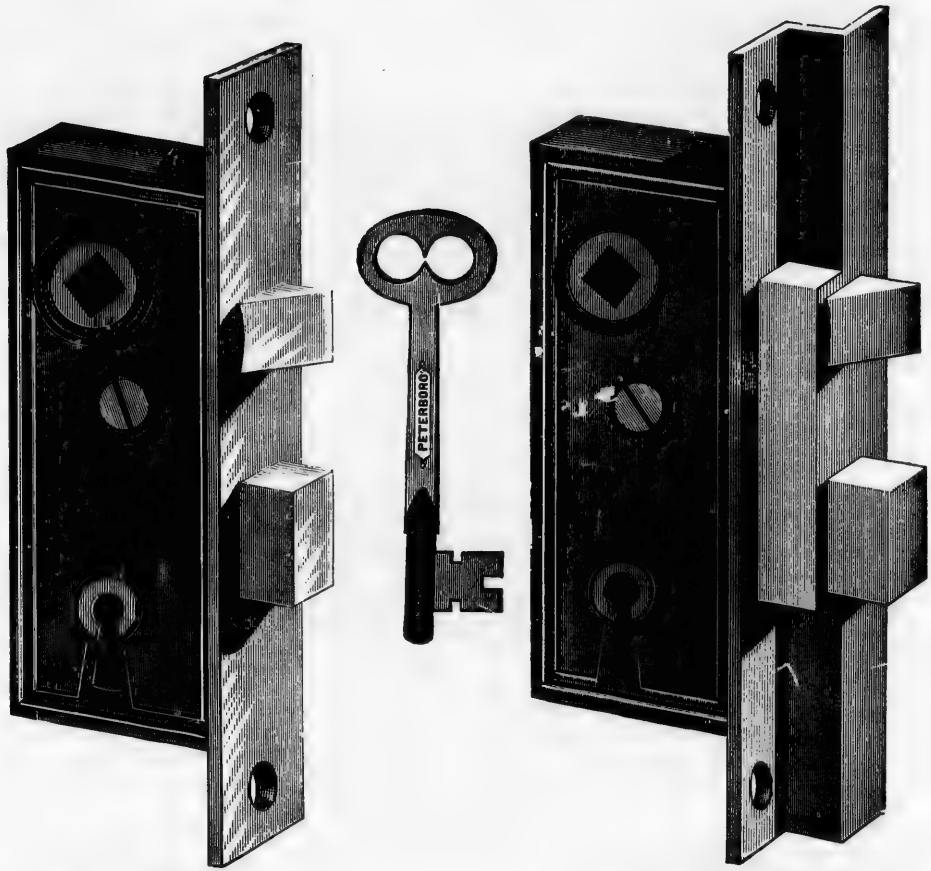



**Adjustable to Right and Left Hand Doors 1¼ to 2 inch thick.**

Corbin's
**No. 5588—3½ x 3⅛ inch, Bronze Metal Front, Bolt, Strike and Cylinder, with Bronze Metal Knob, 3 Keyed, per doz ..... $60.00**

# HANDED MORTISE KNOB LOCKS

## FOR FRENCH WINDOWS OR NARROW STILE DOORS




**Nos. 116 and 117.** Full size cut.

**Nos. 118 and 119.** Full size cut.

### FLAT FRONT

Peterboro'.

No. **116**—3½ x 1⅛ inch, Iron Front and Strike, Brass Bolts, Nickeled Steel Key.....per doz. $15.00
" **117**—3½ x 1⅛ " Brass " " " " " ..... " 16.00

### RABBETED FRONT

Peterboro'.

No. **118**—3½ x 1⅛ inch, Iron Front and Strike, Brass Bolts, Nickeled Steel Key.....per doz. 20.00
" **119**—3½ x 1⅛ " Brass " " " " " ..... " 22.00

Not Reversible—be particular as to Hand when ordering.

## MORTISE KNOB LOCKS

### FOR NARROW STEEL DOORS OR REFRIGERATORS

Flat Front, Reversible by Removing Cap.

Peterboro.

No. **201**—3 x 2½ inch, Iron Front, Strike and Bolts, Tinned Iron Key.....per doz. 2.50

Half-dozen in a box.

# MORTISE KNOB LOCKS



3½ inch. Full size cut.

## REVERSIBLE, FLAT FRONT

| Peterboro'. | Gurney. | | Per doz. |
|---|---|---|---|
| No. **206** | **M900**—3½ x 3½ inch, | Coppered Iron Front and Strike, Iron Bolts, Tinned Iron Key, 1 Tumbler.. | $2.50 |
| " **210** | **M902**—3½ x 3½ " | " " " " " " Malleable Iron Key 1 Tumbler | 3.20 |
| " **216** | ——3½ x 3½ inch, | Brass Front, Strike and Bolts, Nickeled Steel Key, 1 Tumbler | 5.00 |
| " **217** | **M904**—3½ x 3½ " | Coppered Iron Front and Strike, Brass Bolts, Nickeled Steel Key, 1 Tumbler | 4.50 |
| " **219** | **M905**—3½ x 3½ " | Brass " " " " " " " 1 " | 5.50 |
| " **227** | **M1200**—4 x 3½ " | Plain Brass " Strike and Bolts " " " 1 " | 7.50 |
| " **251** | **M1303**—5 x 3½ " | Heavy Bronze Metal Front, " " " " " 1 " | 18.00 |

## P. F. CORBIN'S MORTISE KNOB LOCKS

| Corbin's. | | | |
|---|---|---|---|
| No. **12855B**— | 3½ x 3½ inch, | Wrought Bronze Metal Front, Strike and Bolts, Nickeled Steel Key, 1 Tumbler | 6.00 |
| " **785B**— | 3½ x 3½ " | Bronze Metal Front, Strike and Bolts, Nickeled Steel Key, 1 Tumbler | 9.75 |
| " **1362B**— | 3½ x 3½ " | " " " " " Easy Spring, Nickeled Steel Key, 1 Tumbler | 14.00 |
| " **1363B**— | 4½ x 3½ " | " " " " " " " 1 " | 16.20 |
| " **1366B**— | 4½ x 3½ " | " " " " " Extra Heavy, " " 4 " | 27.50 |

## KEEPERS ONLY

| | |
|---|---|
| Keepers only for No. 210 Locks | 0.30 |
| Keepers " " 219 " | 0.75 |

Lock Nos. 251 and 1366B, quarter dozen; others, half-dozen in a box.

# MORTISE KNOB LOCKS




Full size cut.

## REVERSIBLE FLAT FRONT

| Peterboro'. | Gurney. | | |
|---|---|---|---|
| No. **2219** | **M915**—3½ x 3¼ inch, Bronze Metal Front and Strike, Steel Key, (3 Finish)..... per doz. | | $8.00 |
| " **4219** | **M918**—3½ x 3¼ " Bronze-Plated " " " (10 " )..... | " | 6.00 |

# RABBETED MORTISE KNOB LOCKS

**HANDED, NOT REVERSIBLE**




No. 265. Full size cut.

TORONTO, ONT.

## PLAIN FRONTS

| Peterboro. | | Per doz. |
|---|---|---|
| No. **259**—4½ x 3½ inch, | Lacquered Iron Front, Strike and Bolts, Tinned Malleable Iron Key, 1 Steel Tumbler | $16.00 |
| " **260**—4½ x 3½ " | " " " Brass " Nickeled Steel Key, 1 Steel Tumbler | 17.00 |
| " **261**—4½ x 3½ " | Bronze Metal Front, Strike and Bolts " " " " | 24.00 |
| " **265**—4½ x 3½ " | Lacquered Iron " " " Tinned Malleable Key, 1 Steel Tumbler | 16.00 |
| " **270**—4½ x 3½ " | Reversible, Bronze Metal Front, Strike and Bolts, Nickeled Steel Key | 25.00 |

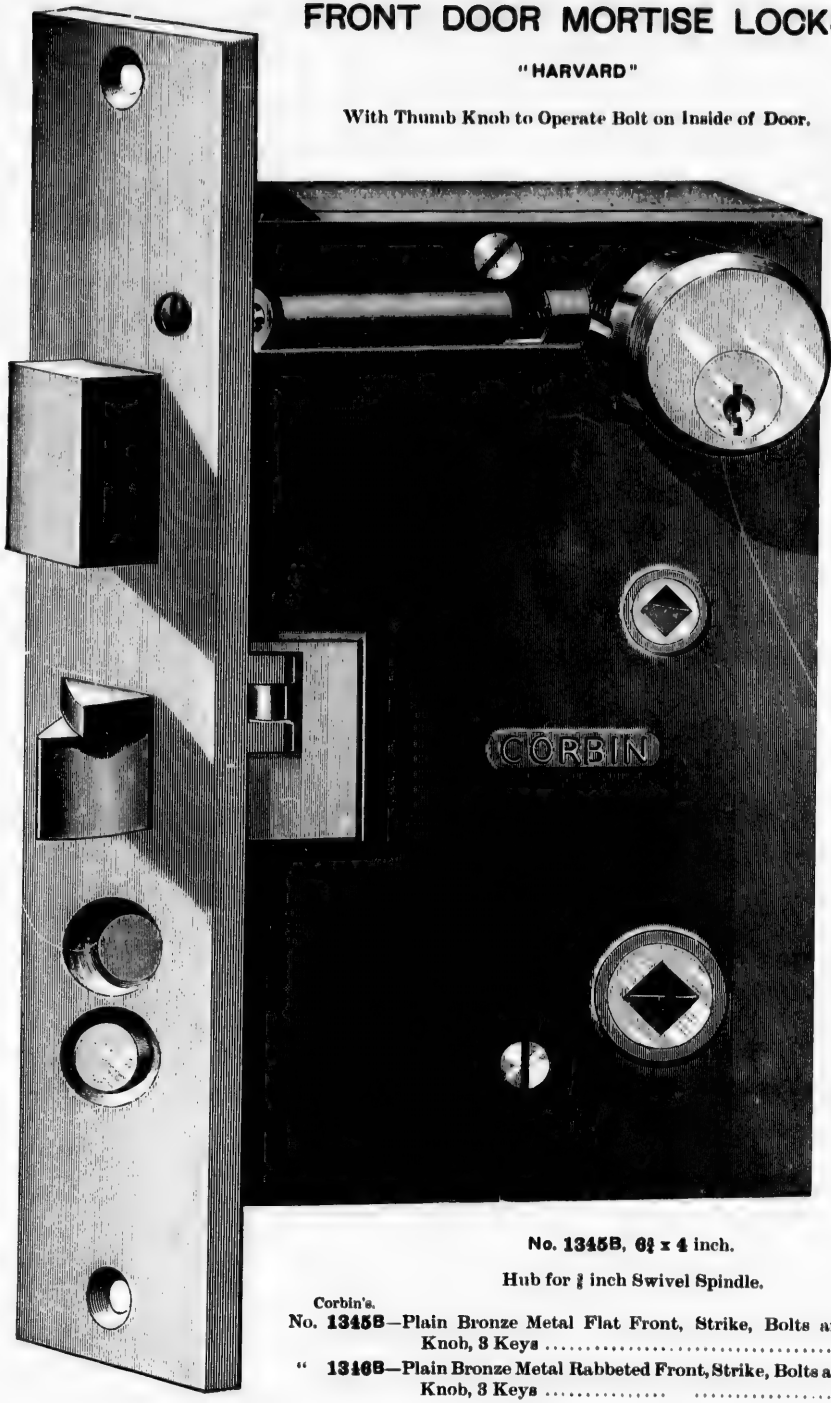
## ORNAMENTAL FRONTS

| Peterboro'. | | |
|---|---|---|
| No. **2265**—4½ x 3½ inch, | Bronze Metal Front, Strike and Bolts, Nickeled Steel Key, (3 Finish) | 24.00 |
| " **4265**—4½ x 3½ " | " Plated " " " Brass Bolts " " (10 " ) | 20.00 |

# FRONT DOOR MORTISE LOCKS

## "HARVARD"

**With Thumb Knob to Operate Bolt on Inside of Door.**






**No. 1345B, 6¼ x 4 inch.**

**Hub for ⅞ inch Swivel Spindle.**

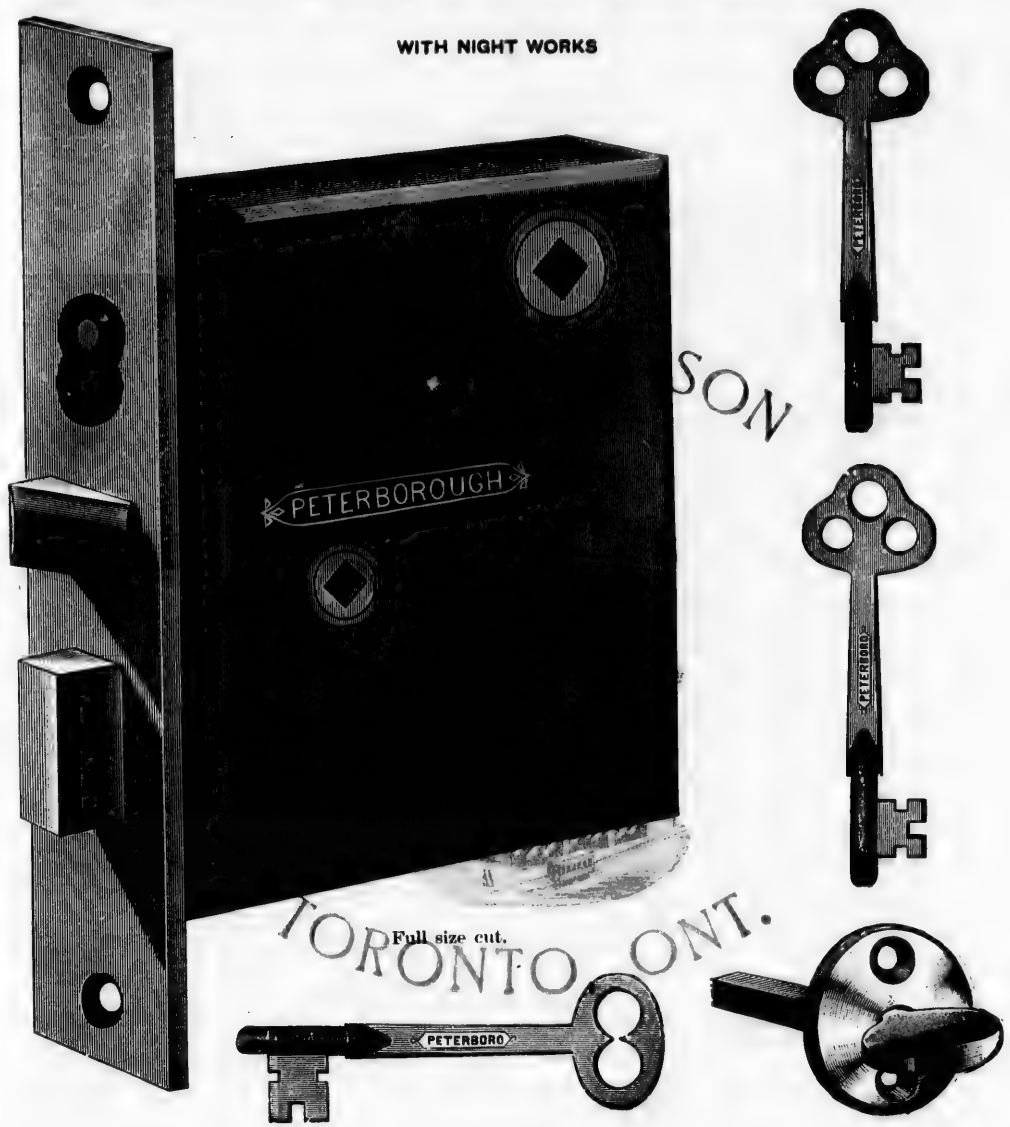
Corbin's.

No. **1345B**—Plain Bronze Metal Flat Front, Strike, Bolts and Thumb Knob, 3 Keys ..... each $ 8.10

" **1346B**—Plain Bronze Metal Rabbeted Front, Strike, Bolts and Thumb Knob, 3 Keys ..... each 14.00

# FRONT DOOR MORTISE KNOB LOCKS

## WITH NIGHT WORKS




Full size cut.

Reversible Latch Bolt, Steel Tumblers, Lever Action. Reverse by removing Cap.

Peterboro'. Gurney.
No. **550** **M203**—4¾ x 3⅝ inch, Bronze Metal Bolts, Front, Strike and Thumb Knob, 2 Nickeled Night Keys, 1 Nickeled Key for Locking Bolt, 1 Steel Tumbler.....per doz. $30.00

**One-twelfth dozen in a box.**

# RABBETED FRONT DOOR MORTISE KNOB LOCKS

## WITH NIGHT WORKS




Full size cut.

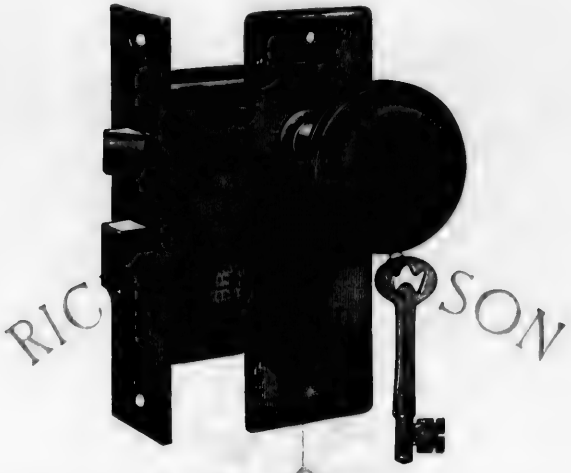
Handed, not Reversible, Steel Tumblers, Lever Action.

| Peterboro'. | Gurney. | | |
|---|---|---|---|
| No. **553** | M353—4½ x 3⅝ inch, Bronze Metal Bolts, Front, Strike and Thumb Knob, 2 Nickeled Night Keys, 1 Nickeled Key for Locking Bolt, 1 Steel Tumbler ..... per doz. | $40.00 |

One-twelfth dozen in a box.

# MORTISE INSIDE DOOR SETS

## "WARNER" COLD ROLLED STEEL



### OLD COPPER FINISH

No. **2002**—3¾ x 3¾ x ½ inch, Brass Front, Strike and Bolts, Pressed Steel Knobs, 2 Elongated Escutcheons, 1 Steel Key ..... per doz. sets $14.00

### PLAIN BRONZE-PLATED

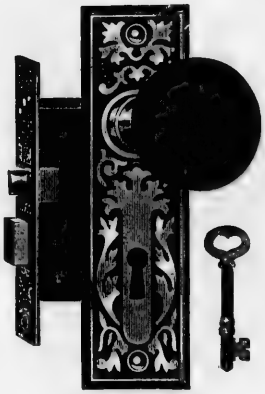
No. **2005**—3¾ x 3¾ x ½ inch, Brass Front, Strike and Bolts, Jet Knob, 2 Elongated Escutcheons, 1 Steel Key, per doz. sets ..... 13.00



The above is a half size cut of the Lock for sets Nos. 2002 and 2005. The Case is made of Seamless High Grade Cold Rolled Steel. The Screw Holes, Pressed, Countersunk and absolutely uniform; Brass Hubs.

# INSIDE DOOR SETS

## P. & F. CORBIN'S



**No. PS100, FIGURED**

Bronzed Plated, Wrought Steel.

Lock 3⅜ × 3½, Knobs 2½, 2 Escutcheons 5½ inch.

The Locks are Wrought Steel-Plated Front, Brass Bolts, 1 Tumbler, Knobs with Bronzed Shank, Rose and Escutcheons Wrought Steel, Bronzed.

No. **PS100**—Jet Knob . . . . . per doz. sets $9.00
" **PS101**—Bronze-Plated Knob . . . . . " " 11.50



**No. S150, PLAIN**

Wrought Bronze Metal.

Lock 3⅜ × 3½, Knobs 2½, 2 Escutcheons 5⅜ inch.

The Lock, Face and Bolts, Knobs and Escutcheons are made of Wrought Bronze Metal.

No. **S150** . . . . . per doz. sets $16.20



**No. S200, PLAIN**

Bronze Metal

Lock 3⅜ × 3¼, Knobs 2½, 2 Escutcheons 5½ × 2 inch.

The Locks are Easy Spring, with Heavy Bronze Metal Front, Strike and Bolts. The Knobs Solid, Bronze Metal, Escutcheons Wrought Bronze Metal.

No. **S200** . . . . . per doz. sets $27.00



**No. F200, SAND BLAST, OXIDIZED COPPER**

Bronze Metal.

Lock 3⅜ × 3½, Knobs 2½, 2 Escutcheons 7½ × 2 inch.

The Locks are Easy Spring with Heavy Bronze Metal Front, Strike and Bolts. The Knobs Solid, Bronze Metal, Escutcheons Wrought Bronze Metal.

No. **F200** . . . . . per doz. sets $30.00

# P. & F. CORBIN'S DOOR TRIMMINGS

## DESIGN "LORAINE"

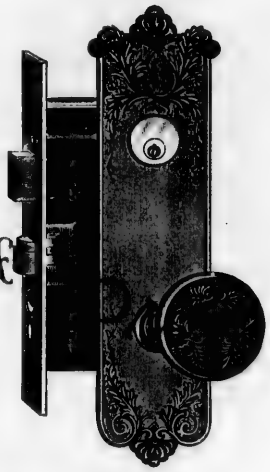
**Bronze Metal, Sand Blast, Old Copper Finish.**



**SET No. S253**

Reversible.

No. 785B —Lock, 3⅜ x 3½ inch.
" 5251 —Knob, 2½ inch.
" 5252½—Rose and Escutcheon, 8½ x 2½ inch.



**SET No. S255**

Handed.

No. 1345B—Cylinder Lock, 6⅜ x 4 inch.
" 5250 x 5251—Knobs, 2½ x 2½ inch.
" 5252 —Rose and Escutcheon, 10 x 3 inch.
" 5252½— " " 8½ x 2½ "



**SET No. S 250**

Reversible.

No. 1092B—Lock, 5½ x 3⅜ inch.
" 5255 —Escutcheon.



**No. 5254**



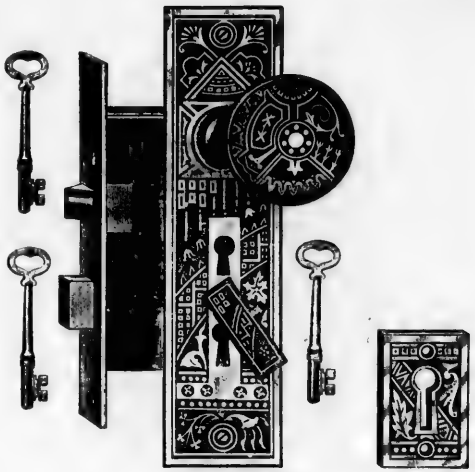
**No. 5257**

| | | | |
|---|---|---|---|
| No. S253—Inside Door Set | | per set | $2.05 |
| " S254—Front " (Design as S255, no Cylinder, but with Night Works, 3 Keyed | | " | 4.90 |
| " S255— " " with 3 Paracentric German Silver Keys | | " | 12.20 |
| " S250—Sliding Door Set, Flat Front, for Single Doors | | " | 2.80 |
| " S251— " " " " Double " | | " | 4.40 |
| " S252— " " Astragal Front for Double Doors | | " | 5.40 |
| " 5254—Electric Push Buttons | | per doz. | 11.50 |
| " 5257—Flush Sash Lifts | | " | 2.50 |

Lock Sets, one in a box.

# FRONT DOOR SETS

**P. & F. CORBIN'S**



**Set No. S751**

**WROUGHT BRONZE METAL**

Reversible, Swivel Spindle.

No. 1230B—Lock, 4⅛ x 3⅜ inch.
" 4583 —Knob, 2½ inch.
" 4965½ —Rose and Escutcheon, 7½ x 1⅝ inch.
" 2104½ —Small Escutcheon.

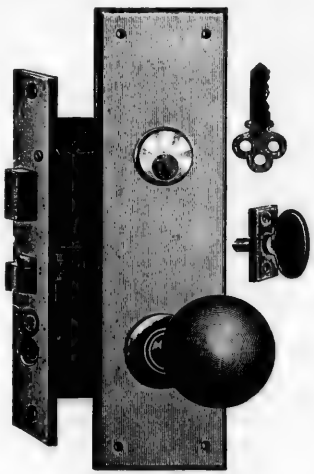


**Set No. S750**

**BRONZE METAL**

Reversible, Swivel Spindle.

No. 1230B—Lock, 4⅛ x 3⅜ inch.
" 1583 —Knob, 2½ inch.
" 2589 —Rose and Escutcheon, 7½ x 2 inch.
" 2596½ —Small Escutcheon.



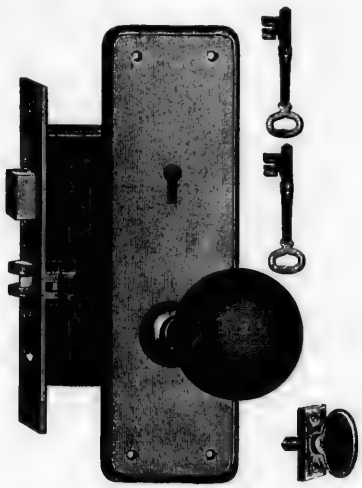
**Set No. S875**

**BRONZE METAL**

Handed, Swivel Spindle.

No. 1345B—Cylinder Lock, 6¾ x 4 inch.
" 1518½ —Knob. 2½ inch.
" 2582½ —Rose and Escutcheon, 10 x 2¼ inch.
Same Key operates both Latch and Lock.

**No. S751**—Front Door Set..... per set $2.00
" **S875**— " " ..... " 11.50



**Set No. S850**

**BRONZE METAL**

Reversible, Swivel Spindle.

No. 1350½B—Lock, 6 x 3¾ inch.
" 1511 – Knob, 2½ inch.
" 02588½ —Rose and Escutcheon, 8 x 2¼ inch.
Same Key operates both Latch and Lock.

**No. S750**—Front Door Set..... per set $2.50
" **S850**— " " ..... " 7.50

One in a box.

# FRONT DOOR SET

**P. & F. CORBIN'S**




**SET No. S800**

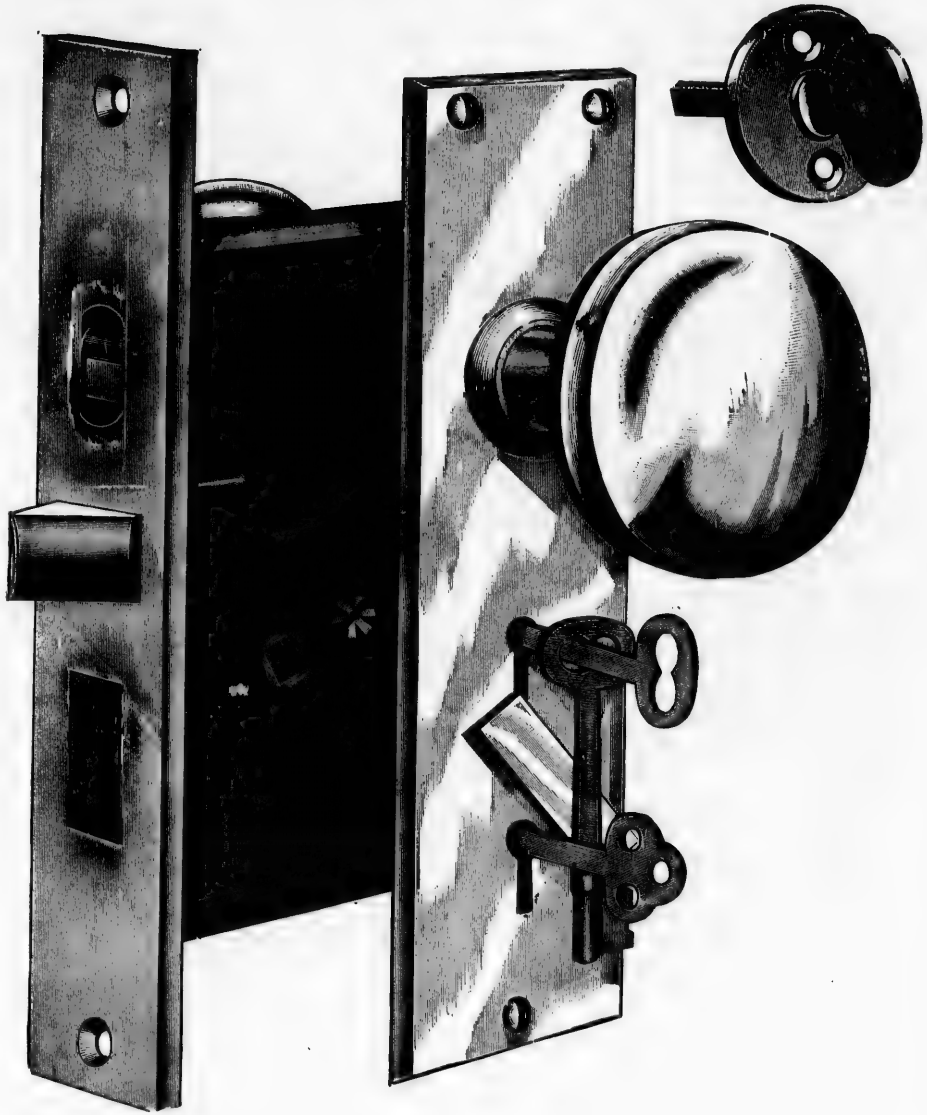
**Reversible, Swivel Spindle.**

Set comprises:—No. 1230B, Lock 4⅞ x 3⅝ inch; Anti-Friction Latch; one pair No. 1518½ x 1519½ Knobs, 2¼ x 2¼ inch; one No. 2589 Rose and Escutcheon, 7¼ x 2 inch; one No. 2596½ Small Escutcheon.

No. **S800** –Front Door Set.....per set $5.40

**One set in a box.**

# FRONT DOOR MORTISE SETS



**REVERSIBLE**

| Peterboro'. | Gurney. | | |
|---|---|---|---|
| No. **0549** | **M0200**—4⅛ x 3⅞ inch, Plain Bronze Metal..... | per set | $3.00 |

One set in a box.

# FRONT DOOR MORTISE SETS



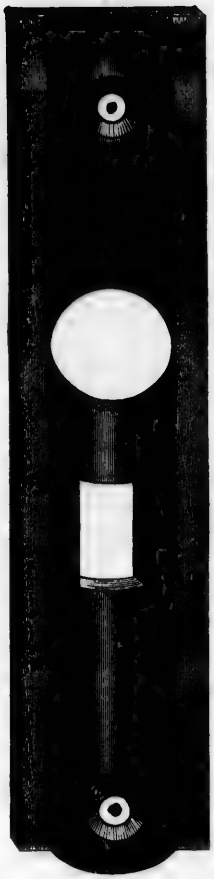
**REVERSIBLE**

| Peterboro'. No. | Gurney. | |
|---|---|---|
| **02549** | **M0212**—4½ x 3⅝ inch, Ornamental Bronze Metal | per set $3.00 |

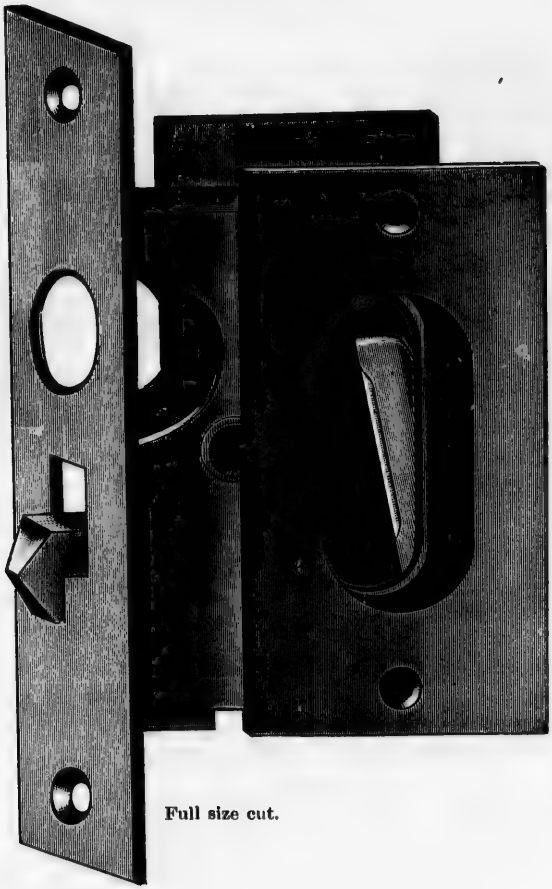
Will be sent in 3 Finish, unless otherwise ordered.

One set in a box.

# SLIDING DOOR LATCHES



ASTRAGAL FRONT



FLAT FRONT

Full size cut.

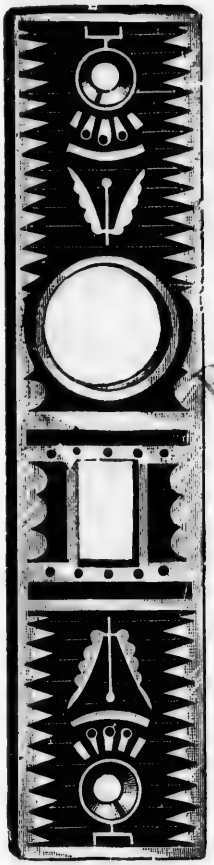
| Peterboro'. | Curney. | | Per set. |
|---|---|---|---|
| No. **37** | **M461½**—3¼ × 3¼ inch, Bronze Metal Flat Front, Strike and Bolt, 2 Flush Escutcheons, for Single Doors | | $1.75 |
| " **40** | **M464½**—3¼ × 3¼ inch, Bronze Metal Flat Front, Strike and Bolt, 4 Flush Escutcheons, for Double Doors | | 2.17 |
| " **43** | **M461** —3¼ × 3¼ inch, Bronze Metal Astragal Front, Strike and Bolt, 2 Flush Escutcheons, for Single Doors | | 2.00 |
| " **46** | **M464** —3¼ × 3¼ inch, Bronze Metal Astragal Front, Strike and Bolt, 4 Flush Escutcheons, for Double Doors | | 2.50 |

## P. & F. CORBIN'S SLIDING DOOR LATCHES

| Corbin's. | | |
|---|---|---|
| No. **N10391½**—3⅜ × 3¼ inch, Bronze-Plated Flat Front and Strike, Bronze Metal Bolts, 2 Bronze-Plated Flush Escutcheons, for Single Doors | | 1.30 |
| " **N10391** —3⅜ × 3¼ inch, Bronze-Plated Flat Front and Strike, Bronze Metal Bolt, 4 Bronzed Flush Escutcheons, for Double Doors | | 1.50 |
| " **N10392** —3⅜ × 3½ inch, Bronze-Plated Astragal Front and Strike, Bronze Metal Bolt, 4 Flush Escutcheons, for Double Doors | | 1.70 |

One set in a box.

# SLIDING DOOR LATCHES



FLAT FRONT



ASTRAGAL FRONT

Full size cut.

PRICE LE... LONDON
TORONTO, ONT.

| Peterboro'. No. | Gurney. | Per set. |
|---|---|---|
| 2037 | M466½—3¼ x 3½ inch, Bronze Metal Flat Front, Strike and Bolt, 2 Flush Escutcheons, for Single Doors | $1.75 |
| " 2040 | M470½—3¼ x 3½ inch, Bronze Metal Flat Front, Strike and Bolt, 4 Flush Escutcheons, for Double Doors | 2.17 |
| " 2043 | M466 —3¼ x 3½ inch, Bronze Metal Astragal Front, Strike and Bolt, 2 Flush Escutcheons, for Single Doors | 2.00 |
| " 2046 | M470 —3¼ x 3½ inch, Bronze Metal Astragal Front, Strike and Bolt, 4 Flush Escutcheons, for Double Doors | 2.50 |

Will send 3 Finish, unless otherwise ordered.

## P. & F. CORBIN'S SLIDING DOOR LATCHES

| Corbin's No. | | |
|---|---|---|
| P0391½ | —3⅜ x 3½ inch, Persian Bronze-Plated Flat Front and Strike, Bronze Metal Bolt, 2 Bronze-Plated Escutcheons, for Single Doors | 1.30 |
| " P0391 | —3⅜ x 3½ inch, Persian Bronze-Plated Flat Front and Strike, Bronze Metal Bolt, 4 Bronze-Plated Escutcheons, for Double Doors | 1.50 |
| " P0391 | —3⅜ x 3½ inch, Persian Bronze-Plated Astragal Front and Strike, Bronze Metal Bolt, 4 Bronze-Plated Escutcheons, for Double Doors | 1.70 |

One set in a box.

# FLUSH SLIDING DOOR MORTISE LOCKS




**No. 1092B.** Full size cut.

| Corbin's. | | Per set. |
|---|---|---|
| No. **1092B**— | $5\frac{1}{2}$ x $3\frac{3}{8}$ inch, Bronze Metal Flat Front and Strike, Bronze Metal Bolts, 2 Bronze Metal Cup Escutcheons $4\frac{1}{8}$ x $2\frac{1}{8}$ inch, Extension Key, for Single Doors | $2.00 |
| " **1100B**— | $5\frac{1}{2}$ x $3\frac{3}{8}$ inch, Bronze Metal Front and Strike, Bronze Metal Bolts, 4 Bronze Metal Cup Escutcheons $4\frac{1}{8}$ x $2\frac{1}{8}$ inch, Extension Key, for Double Doors | 2.80 |
| " **1108B**— | $5\frac{1}{2}$ x $3\frac{3}{8}$ inch, Bronze Metal Astragal Front, Strike and Bolt, 4 Bronze Metal Cup Escutcheons $4\frac{1}{8}$ x $2\frac{1}{8}$ inch, Extension Key, for Double Doors | 3.60 |

Nos. 1100B and 1108B, 2 Locks in a set; No. 1092B, 1 Lock and Strike.

One set in a box.

# DOOR KNOBS

## JAPANNED MOUNTINGS




### PORCELAIN

| | | | | | |
|---|---|---|---|---|---|
| No. **307** —Rim, 2¼ inch.....per doz. | $1.65 | | No. **306** —Mortise, 2¼ inch.....per doz. | $1.65 |
| " **307½**— " (Seconds)..... " | 1.30 | | " **306½**— " (Seconds)..... " | 1.30 |

### JET

| | | | | | |
|---|---|---|---|---|---|
| No. **337**—Rim, 2¼ inch.....per doz. | 1.65 | | No. **336**—Mortise, 2¼ inch.....per doz. | 1.65 |

## PLATED MOUNTINGS




### PORCELAIN

| | | | | | |
|---|---|---|---|---|---|
| No. **319**—Rim, 2¼ inch, Plated on Iron Necks and Brass Roses.....per doz. | $3.45 | | No. **318**—Mortise, 2¼ inch, Plated on Iron Necks and Brass Roses.....per doz. | 3.45 |
| " **321**—Rim, 2¼ inch, Plated on Brass Necks and Roses.....per doz. | 4.80 | | " **320**—Mortise, 2¼ inch, Plated on Brass Necks and Roses.....per doz. | 4.80 |

### JET

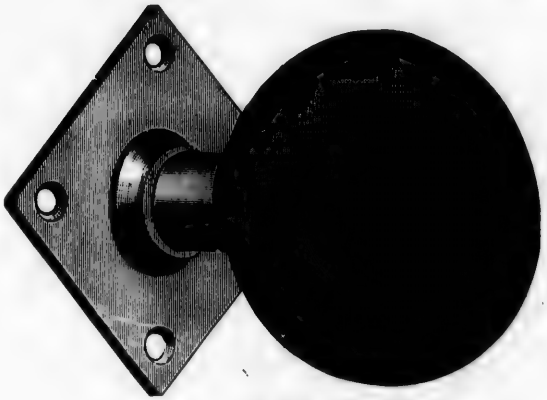
| | | | | | |
|---|---|---|---|---|---|
| No. **339**—Rim, 2¼ inch, Plated on Iron Necks and Brass Roses.....per doz. | 3.45 | | No. **338**—Mortise, 2¼ inch, Plated on Iron Necks and Brass Roses.....per doz. | 3.45 |
| " **341**—Rim, 2¼ inch, Plated on Brass Necks and Roses.....per doz. | 4.80 | | " **340**—Mortise, 2¼ inch, Plated on Brass Necks and Roses..... | 4.80 |

Rim Knob Locks extend on their Spindles ¾ inch, as follows: 1⅛ to 2¼ inches, 1⅜ to 2½ inches, 2 to 2⅞ inches, 2¼ to 3 inches. Mortise Knobs extend on their Spindles 1 inch, as follows: 1 to 2 inches, 1¼ to 2⅜ inches. In ordering, state length of Spindles required, and if for **Rim** or **Mortise** Locks.

Half-dozen in a box.

# DOOR KNOBS

**2¼ INCH**

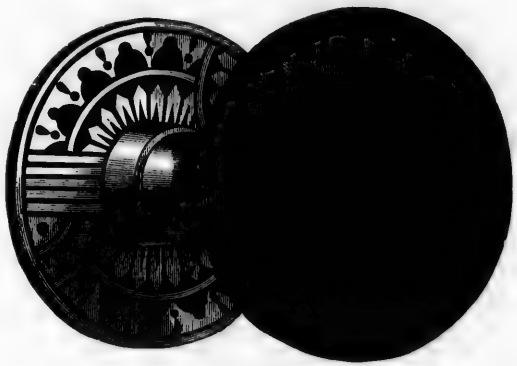


No. 502

## JET

| Peterboro'. | Gurney. | Per doz. |
|---|---|---|
| No. 502 | .....—Mortise, Bronze Metal Neck and Rose..... | $5.00 |
| " 503 | .....—Rim, Bronze Metal Neck and Rose..... ..... | 5.00 |

Furnished with Round Rose if desired.



No. 4504

## JET

| Peterboro'. | Gurney. | |
|---|---|---|
| No. 4504 | 815—Mortise, Bronze-Plated Neck, Ornamental Rose | 3.45 |
| " 4505 | 815—Rim, Bronze-Plated Neck, Ornamental Rose | 3.45 |



No. 4500

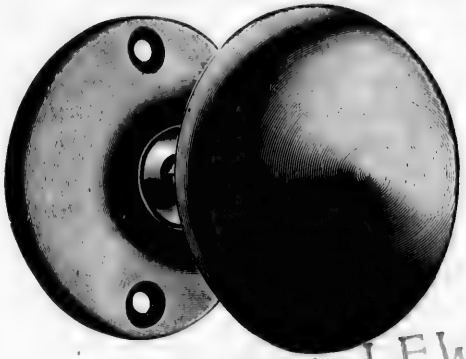
## ORNAMENTAL

| Peterboro'. | Gurney. | |
|---|---|---|
| No. 2500 | 314—Bronze Metal (3 finish).. | 12.00 |
| " 3500 | 318—Berlin Bronzed ..... ... | 4.00 |
| " 4500 | 316—Bronze-Plated (10 finish) | 6.00 |
| " 5500 | 319—Nickel-Plated ..... | 6.00 |

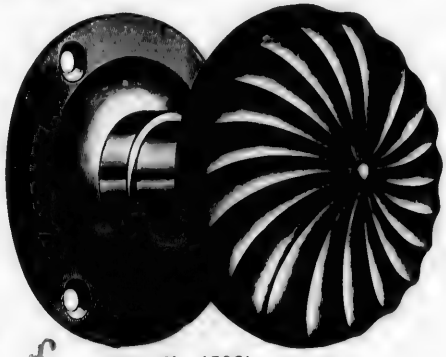
In ordering state length of Spindles required and if for **Rim** or **Mortise** Locks.

Half-dozen in a box.

# DOOR KNOBS



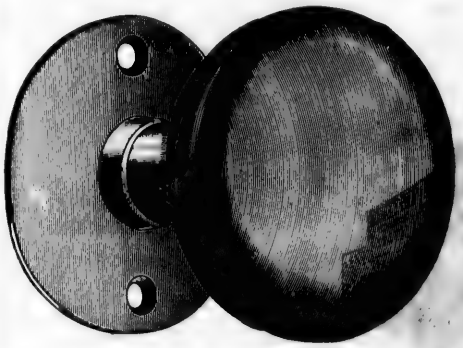
No. 4500P



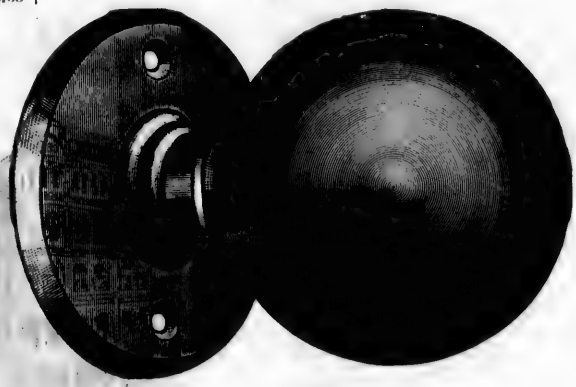
No. 1506½

No. **4500P**—2¼ inch, Bronze Plated.....per doz. $ 7.00
" **1519½**—2¼ " Plain Bronze Metal " 14.00
" **1518½**—2¼ " " " " " 19.50
" **1518½**—3 " " " " " 49.00

No. **1506½**—2¼ inch, Plain Bronze, Fluted per doz. $29.50
" **1505½**—2½ " " " " " 34.50

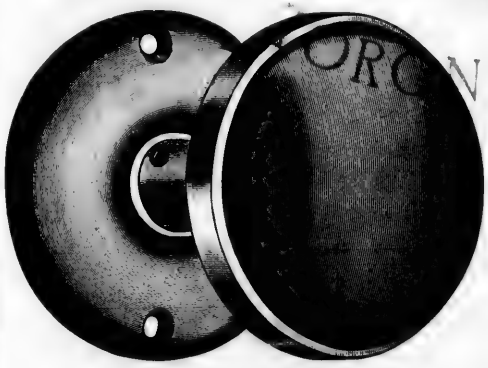


No. 2535

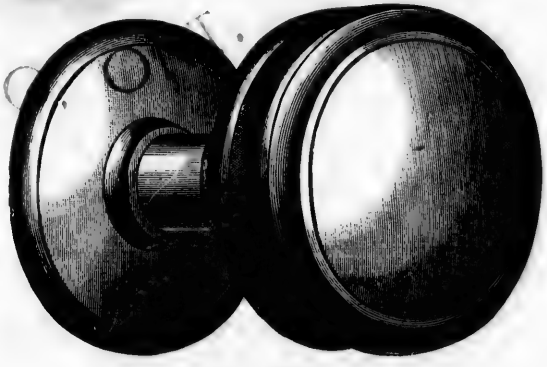


No. 2545

No. **2535**—2¼ inch, Plain Bronze.....per doz. $10.00 | No. **2545**—2¼ inch, Plain Bronze.....per doz. $22.00



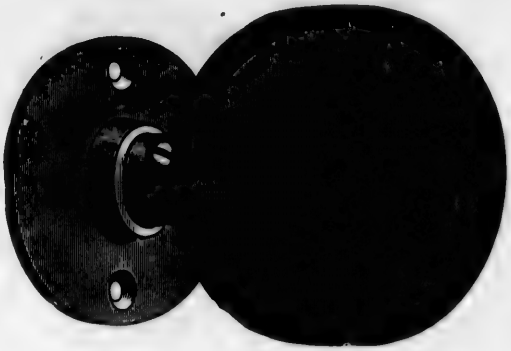
No. 2533



No. 2520

No. **2533**—2¼ inch, Plain Bronze.....per doz. $11.00 | No. **2520**—2¼ inch, Plain Bronze.....per doz. $16.00
Half-dozen in a box.

# DOOR KNOBS



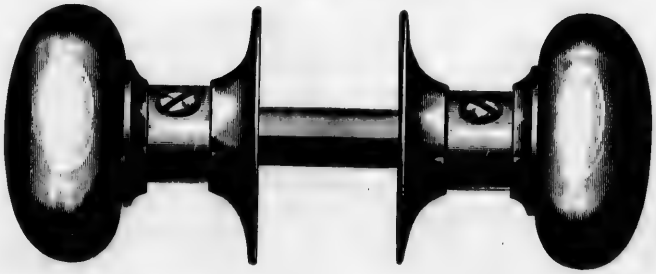
## MORTISE WOOD DOOR KNOBS

2¼ inch.

No. **212**—Assorted Woods, with Plain, Cast Bronze Metal Roses and Shanks.....per doz. $8.00

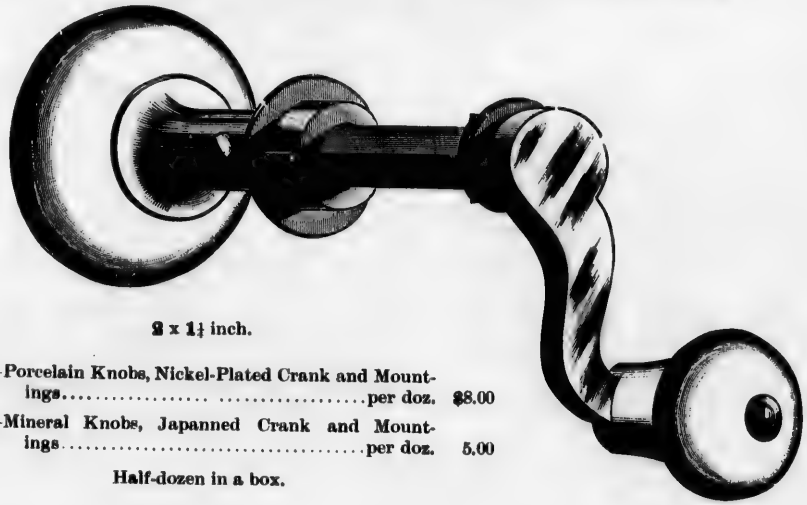
" **240**—Assorted Woods, with Wood Roses.....per doz. 4.00

## CUPBOARD KNOBS



No. **1919**—1⅜ inch, Bronze Metal, ⅜ Spindle.....per doz. 15.00

## FRENCH WINDOW MORTISE CRANK HANDLE KNOBS



2 x 1¼ inch.

No. **381** —Porcelain Knobs, Nickel-Plated Crank and Mountings.....per doz. $8.00

" **928½**—Mineral Knobs, Japanned Crank and Mountings.....per doz. 5.00

Half-dozen in a box.

# SIDE KNOB SCREWS



Full size cut.

| | | |
|---|---|---|
| No. 9—Iron Blued, length ⅜ inch | per gross | $0.40 |
| " 9—Bronze Metal, " ⅜ " | " | 1.20 |

One gross in a package

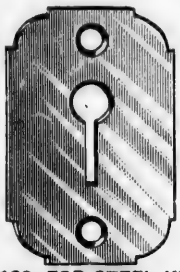
## KNOB SPINDLES



| | | |
|---|---|---|
| Plain Spindles, ¼ inch, for Rim or Mortise Knobs | per doz. | 0.45 |
| Swivel " ¼ " " Mortise Locks | " | 2.20 |
| Swivel " ⅜ " " " | " | 2.20 |

RICE LEWIS & SON LIMITED

## PLATE ESCUTCHEONS



No. 182, FOR STEEL KEYS

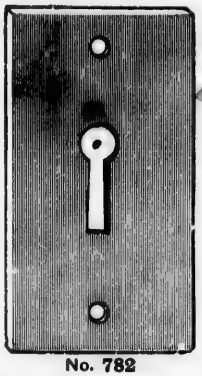


No. 483

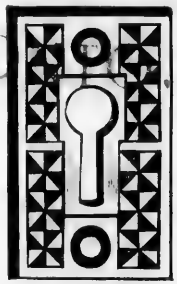


No. 2596½

| | | |
|---|---|---|
| No. 182 —Nickel-Plated | per doz. | 0.36 |
| " 483 —Bronze Metal | " | 0.46 |
| " 2596½— " 1⅛ x 1½ inch | " | 0.55 |
| " 2694½— " 1⅛ x ⅝ " | " | 0.50 |



No. 782



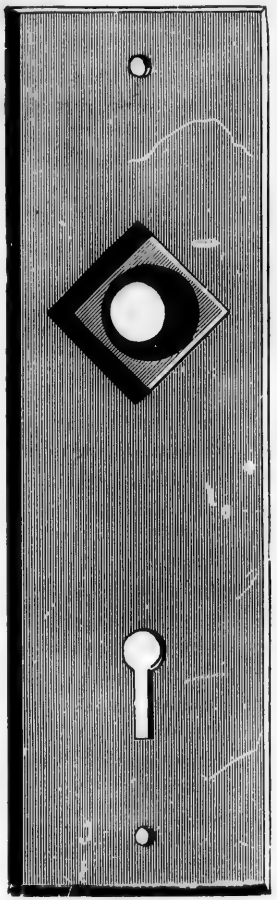
No. 2583



No. 2782

| | | |
|---|---|---|
| No. 782 —Plain Bronze Metal | per doz. | 1.20 |
| " 4782—Plain Bronze-Plated (Pattern as 782) | " | 0.80 |
| " 2583—Bronze Metal (3 finish) | " | 0.70 |
| " 3583—Amber Bronzed (Pattern as 2583) | " | 0.40 |
| " 4583—Bronze-Plated (10 finish) (Pattern as 2583) | " | 0.50 |
| " 2782—Bronze Metal (3 " ) | " | 1.70 |
| " 3582—Amber Bronzed (Pattern as 2782) | " | 0.50 |
| " 4582—Bronze-Plated (10 finish), (Pattern as 2782) | " | 0.80 |

# ROSE AND ESCUTCHEONS

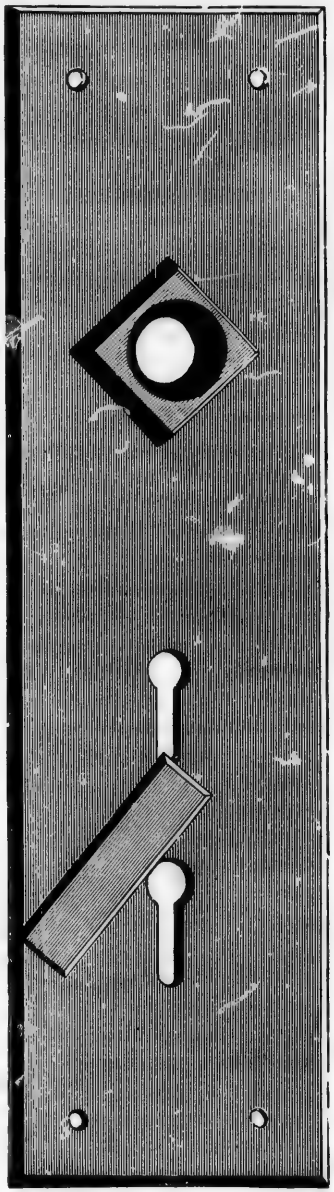


No. 579. Full size cut.

**BRONZE METAL**

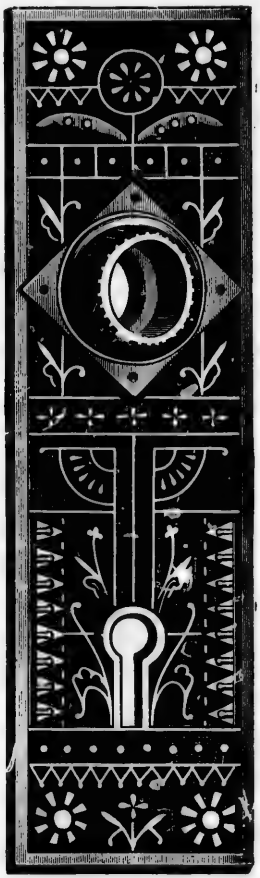
| | Per doz. |
|---|---|
| No. **579**—For 3½ inch Mortise Locks.. | $3.50 |
| " **578**—For 4 inch Mortise Locks.. | 4.00 |
| " **577**—For 4½ inch Mortise Locks.. | 4.00 |
| " **576**—For 5 inch Mortise Locks.. | 7.00 |

And 5 inch Rim Locks, with Night Works.



No. 575. Full size cut.

| | Per doz. |
|---|---|
| No. **575**—Bronze Metal, for Mortise Front Door Locks, 4½ and 5 inch, and Rim Locks, with Night Works..... | $7.00 |



No. 2579. Full size cut.

| BRONZE METAL (3 Finish) | Per doz. |
|---|---|
| No. **2579**—For 3½ inch Mortise Locks..... | $3.50 |
| " **2578**—For 4 inch Mortise Locks..... | 4.50 |
| " **2577**—For 4½ inch Mortise Locks..... | 4.50 |
| " **2576**—For 5 inch Mortise Locks..... | 6.00 |

And 5 inch Rim Locks, with Night Works.

**AMBER BRONZED**

| | |
|---|---|
| " **3579**—For 3½ inch Mortise Locks..... | 2.00 |
| " **3578**—For 4 inch Mortise Locks..... | 2.50 |
| " **3577**—For 4½ inch Mortise Locks..... | 2.50 |

**BRONZE-PLATED** (10 Finish)

| | |
|---|---|
| " **4579**—For 3½ inch Mortise Locks..... | 2.50 |
| " **4578**—For 4 inch Mortise Locks..... | 3.00 |
| " **4577**—For 4½ inch Mortise Locks..... | 3.00 |

# LATCH AND LOCK KEY BLANKS



Nos. 2, 3 and 4




6




8

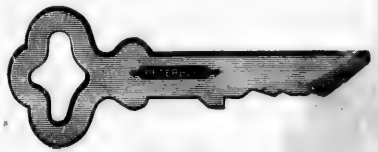



98




99

| | | | |
|---|---|---|---|
| No. **2**—Blanks for Flat Key Cupboard Locks | | per doz. | $0.60 |
| " **3**— " " " Rim Night Latches | | " | 0.60 |
| " **4**— " " " Store Door and Chest Locks | | " | 0.60 |
| " **6**— " " Corrugated "Yale" Rim Latches and Locks | | " | 2.00 |
| " **8**— " " Paracentric " " " " | | " | 3.30 |
| " **98**— " " Harvard Locks, with 1 inch Cylinder | | " | 2.00 |
| " **98¼**— " " " " " 1¼ " " | | " | 2.00 |
| " **98½**— " " " " " 1½ " " | | " | 2.70 |
| " **99**— " " " " new style | | " | 2.70 |



No. 100

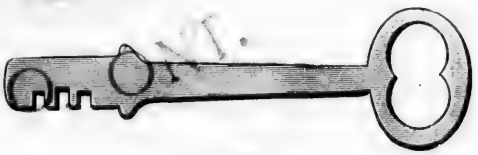



No. 90

| | Peterboro'. | Gurney. | Per doz. |
|---|---|---|---|
| No. **100**—Blanks for Rim Night Latches | Nos. 100 and 101 | | $1.25 |
| " **90**— " " " " | " 90 " 91 | 30, 31, 32 and 33 | 1.00 |




No. 471



No. 170

| | | |
|---|---|---|
| No. **471**—Blanks for Mortise Store Door Locks, Peterboro', Nos. 852 to 853A | per doz. | 1.80 |
| " **170**— " " " " " Gurney " 603 " 627 | " | 1.80 |



No. 8416¼

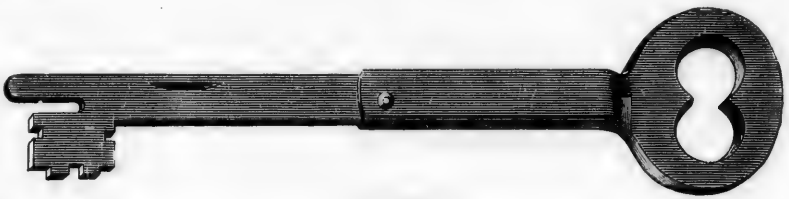
| | | |
|---|---|---|
| No. **8416¼**—Flat Steel Door Key Blanks | per gross | 6.00 |

# FOLDING KEY BLANKS



No. 46

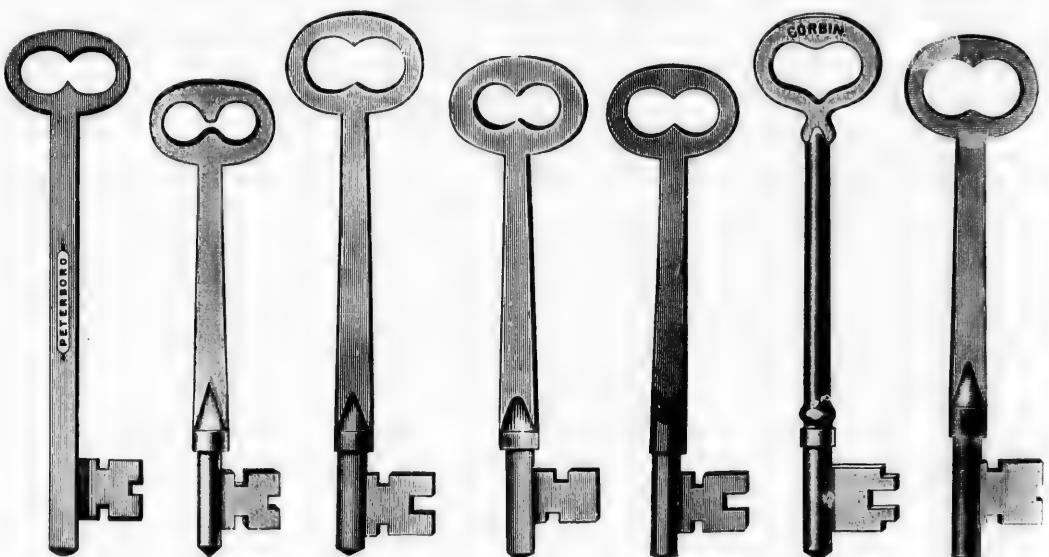
| | Peterboro'. | Gurney. | Per doz. |
|---|---|---|---|
| No. **46**—Blanks for Store Door Dead Locks | Nos. 440 to 461 | 440 to 461 | $3.50 |



No. 190

| | | |
|---|---|---|
| No. **190**—Blanks for Corbin's 4 inch Rim Dead Locks | per doz. | 3.25 |
| " **194**— " " 5 and 6 inch Rim Dead Locks | " | 3.25 |

## RIM LOCK KEYS AND BLANKS




Nos. 21 27 51 80 25 312 012

| | | Peterboro'. | Gurney. | Per doz. |
|---|---|---|---|---|
| No. **21**—Blank, Flat Steel, Nickel-Plated, for Locks | Nos. | 1422 to 1427 | 60½ | $1.20 |
| " **27**— " Steel, Nickel-Plated, for Locks | " | 1226, 1227, 1236, 1237 | 771, 880, 100 | 1.30 |
| " **51**—Cut " " " | " | 1251 to 1254, 1261 to 1264 | 1120, 1121, 1140 | 1.70 |
| " **51**—Blank " " | | | | 1.70 |
| " **80**— " " " for Latches | " | 80 to 82 | 20A, 21A | 1.30 |
| " **25**— " Malleable Iron, Tinned, for Locks | " | 1225, 1235 | 770, 1110 | 0.50 |
| " **312**—Cut, Steel, Nickel-Plated, for Rim Locks | | | | 2.25 |
| " **312**—Blank " " " " | | | | 2.25 |
| " **012**—Cut, Malleable Iron, Tinned, " " | | | | 0.30 |

# MORTISE LOCK KEYS AND BLANKS



Nos. 37 35 179½ 311 011

| No. | | | Peterboro'. | Gurney. | Per doz. |
|---|---|---|---|---|---|
| No. | 37 | —Steel, Nickel-Plated, for Locks | Nos. 219 | 1300 to 1312 | $1.30 |
| " | 37 | — " " Key Blanks | | | 1.30 |
| " | 35 | —Tinned Malleable Iron, for Locks | " 265 | 900 and 1000 | 0.50 |
| " | 179½ | —Steel, Nickel-Plated, for Corbin's No. 785B Locks | | | 2.00 |
| " | 311 | — " " " " " 1362 " | | | 2.00 |
| " | 311 | — " " Key Blanks | | | 2.00 |
| " | 011 | —Tinned Malleable Iron, for Corbin's Common Mortise Locks | | | 0.30 |

Three dozen in a box.

## CABINET KEY BLANKS



No. 4004

Nos. 4616 4613 4602 4603 4218 4394 4425

| Nos | 4616 | 4613 | 4602 | 4603 | 4604 | 4218 | 4394 | 4425 |
|---|---|---|---|---|---|---|---|---|
| Per gross | $10.00 | 8.00 | 3.00 | 2.50 | 3.30 | 16.80 | 5.50 | 8.40 |

# FLAT STEEL KEY BLANKS



Nos. 5543 | 5542 | 5541 | 5540 | 5549 | 5549½ | 5549¼

Nos. **5540** to **5549¼**—Flat Steel Key Blanks.....per gross **$3.00**



Nos. 4132 | 4136 | 4126 | 4142 | 8493 | 8531

| Nos. | 4132 | 4136 | 4126 | 4142 | 8493 | 8531 |
|---|---|---|---|---|---|---|
| Per gross | $6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 |

# TRUNK KEY BLANKS



Nos. 5000 | 5001 | 5002 | 5005 | 5010 | 5011 | 5012

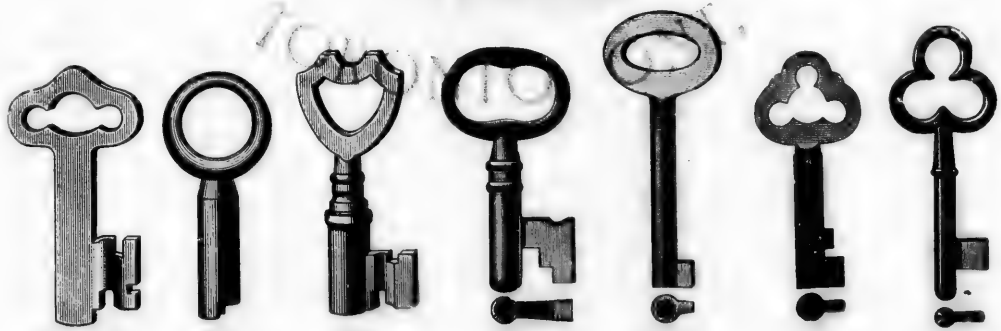
Nos. **5000** to **5012**—Trunk Key Blanks.....per gross $3.00



Nos. 5025 | 5028 | 5105 | 5166 | 5182 | 5190

Nos. **5025** and **5028**—Trunk Key Blanks.....per gross 3.00
" **5105** — " " " Drilled..... " 10.00
" **5166** — " " " " ..... " 4.00
" **5182** and **5190**— " " " " ..... " 4.00

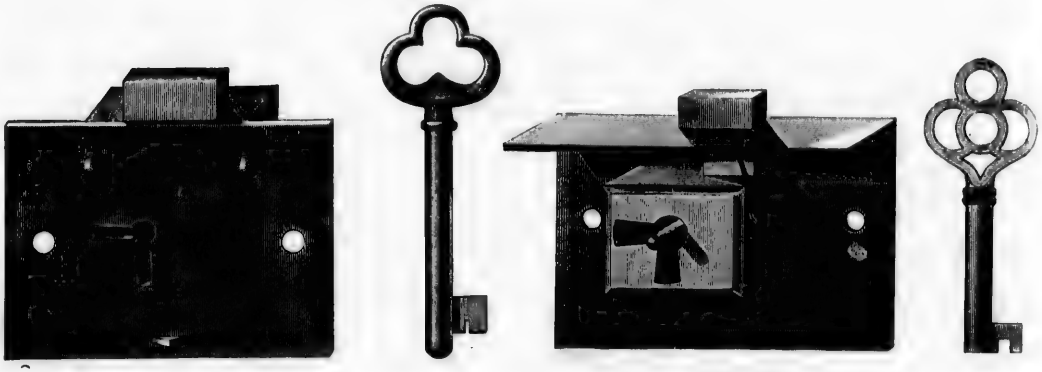
# PADLOCK AND BAG KEY BLANKS



Nos. 215 | 313 | 335 | 5590 | 5376 | 5339 | 5236

| Nos | 215 | 313 | 335 | 5590 | 5376 | 5339 | 5236 |
|---|---|---|---|---|---|---|---|
| Per gross | $6.00 | 4.50 | 4.50 | 4.50 | 5.00 | 3.50 | 3.50 |

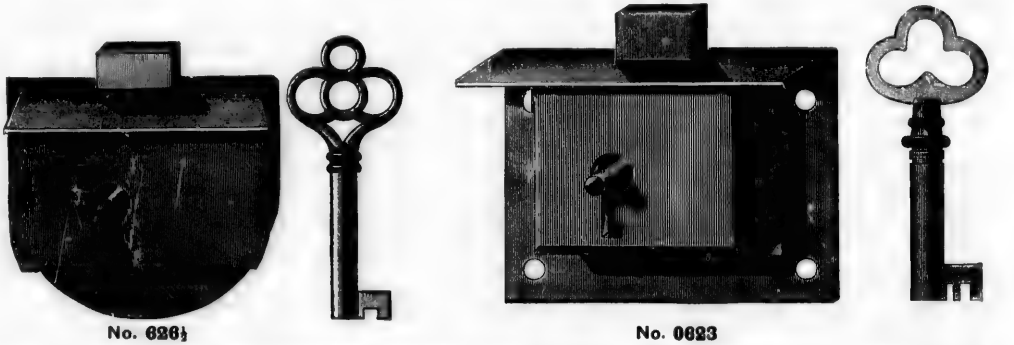
# DRAWER LOCKS



No. 406

No. 626

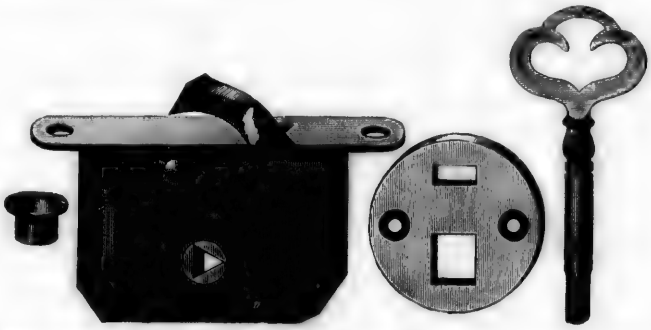
No. **406**—2½ inch, Iron, Solid Square Box, Spring, ⅝ inch Selvedge to centre of Key Hole, 3 Keyed ..per doz. $0.40
" **406**—2½ " Iron, " " " " ⅝ " " " " 12 " ... " 0.66
" **626**—2½ " Iron, Back Spring, ⅝ inch Selvedge to Key Pin, 3 Keyed ..... " 0.40
" **626**—2½ " Iron, " " ⅝ " " " 12 " ..... " 0.66



No. 626½

No. 0623

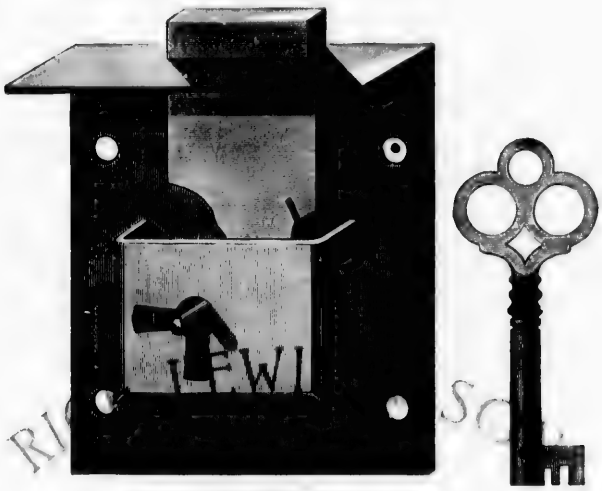
No. **626½**—2 inch, Iron, Back Spring, ⅝ inch Selvedge to Key Pin, 3 Keyed .....per doz. 0.40
" **626½**—2 " Iron, " " ⅝ " " " 12 " ..... " 0.66
" **0623**—2½ " Brass Back, 1 Ward, ⅝ inch " " " 12 " ..... " 1.00



No. **861**—2½ inch, Brass Selvedge and Strike, Triangular Key, Silvered Escutcheons, Hook Bolt, ⅞ inch Selvedge to middle of Key Hole .....per doz. 1.50

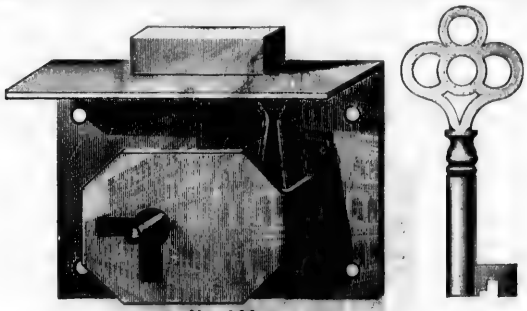
One dozen in a box.

# DRAWER LOCKS



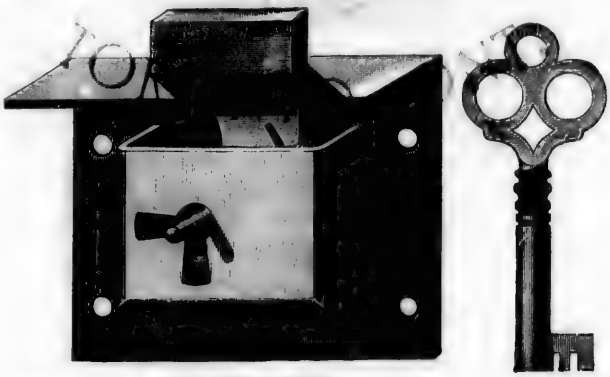
**No. 638**

No. **638**—2½ inch, **Iron**, Brass Selvedge, Broad Heavy Bolt, 1 Ward, 1¼ inch from Selvedge to Key Pin, per doz. $1.80



**No. 411**

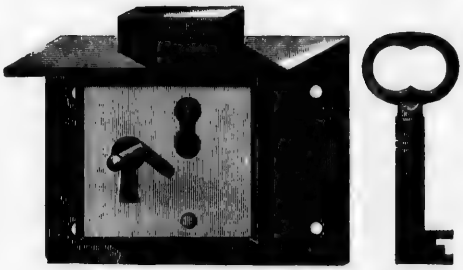
No. **411**—2½ inch, **Iron**, Broad Heavy Bolt, Tumbler, 2 Wards, 1 inch from Selvedge to Key Pin.....per doz. 2.00



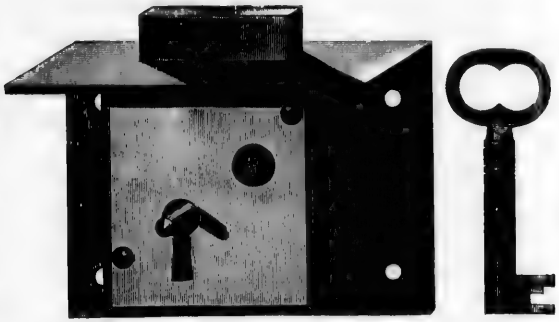
**Nos. 634 and 635**

No. **634**—2½ inch, **Iron**, Broad Bolt, 1 Ward, 1 inch from Selvedge to Key Pin.....per doz. 1.15
" **635**—2½ " " Brass Selvedge, Broad Bolt, 1 Ward, 1 inch from Selvedge to Key Pin..... " 1.50
One dozen in a box.

# DRAWER LOCKS



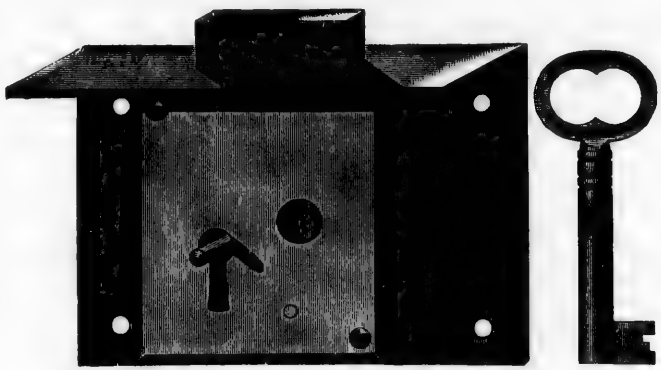
Nos. **430** and **0430**. Style of No. **431**



No. **457**. Style of Nos. **0482** to **0462**

No. **430**—2 inch, Iron, Solid Box, Broad Brass Bolt, 2 Secure Levers, $\frac{5}{8}$ inch Selvedge to Key Pin....per doz. $3.00
" **0430**—2 " Brass, " " " 2 " $\frac{5}{8}$ " " " .... " 4.00
" **431**—2$\frac{1}{4}$ " Iron, " " " 2 " $\frac{7}{8}$ " " " .... " 3.25
" **457**—2$\frac{1}{4}$ " Iron, " Broad Heavy Bolt, 2 " $\frac{7}{8}$ " " " .... " 3.25
" **0482**—2$\frac{1}{4}$ " Brass, " " " 1 " $\frac{7}{8}$ " " " .... " 10.00
" **0480**—2$\frac{1}{4}$ " Brass, " " " 3 " $\frac{7}{8}$ " " " .... " 7.50
" **0462**—2$\frac{1}{4}$ " Brass, " Brass Bolt, 3 " $\frac{7}{8}$ " " " .... " 5.00

Nos. 430 to 0482 have Flat Bow Steel Keys, all different in a dozen; No. 0480, 4 changes in a dozen; No. 0462, Brass Keys, all different in a dozen.

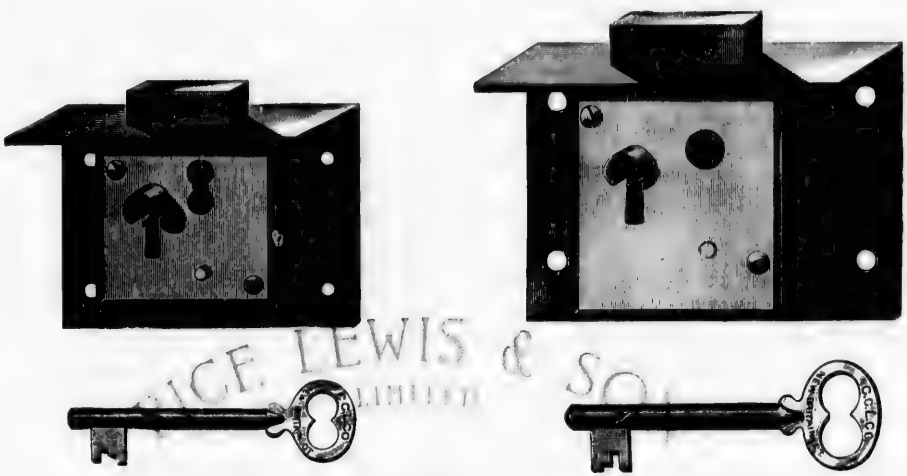


No. **469**

No. **469**—3 inch, Iron, Solid Square Box, Screwed, Broad Heavy Bolt, 2 Secure Levers, 1$\frac{1}{8}$ inch from Selvedge to Key Pin, Flat Bow Steel Keys, all different in a dozen.....per doz. 5.00

One dozen in a box.

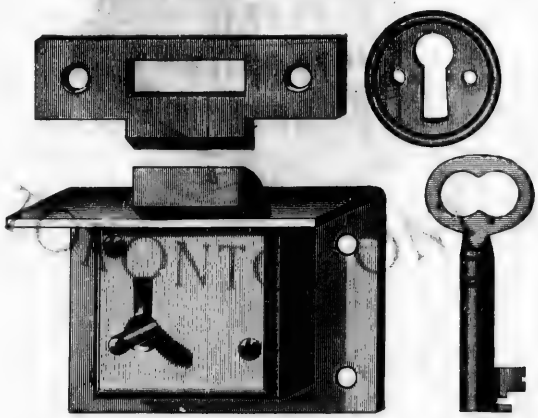
# DRAWER LOCKS



No. 0571 No. 0576

No. **0571**—2 inch, **Brass,** Solid Square Box, Screwed, Broad Bolt, 2 Secure Levers, ⅜ inch from Selvedge to Centre of Tube, Solid Steel Keys, all different in a dozen.....per doz. **$5.00**

" **0576**—2¼ inch, **Brass,** Solid Square Box, Screwed, Broad Heavy Bolt, 3 Secure Levers, ⅜ inch from Selvedge to Centre of Tube, Solid Steel Keys, all different in a dozen..... ..... .....per doz. 7.00

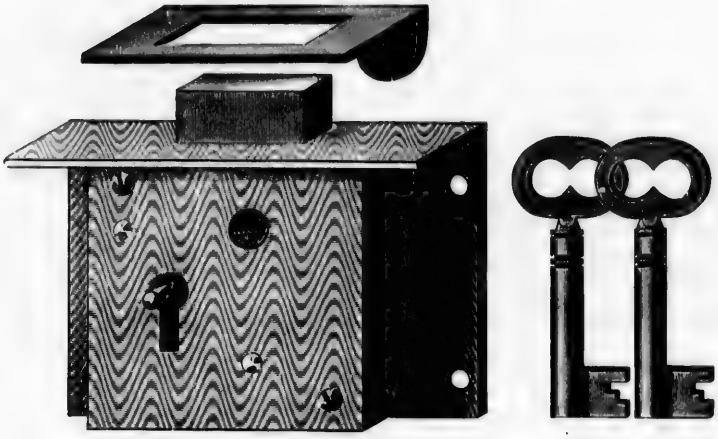


No. 0479

No. **0479**—2 inch, **Brass,** Self-Locking, Solid Square Box, Screwed, Broad Heavy Latch Bolt, 6 Wards, ⅞ inch from Selvedge to Key Pin, Bow Steel Keys, all different in a dozen.....per doz. 8.00

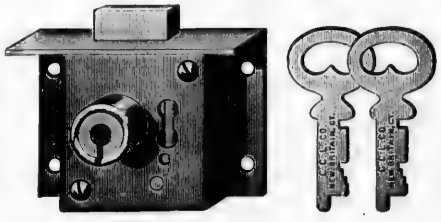
One dozen in a box.

# DRAWER LOCKS

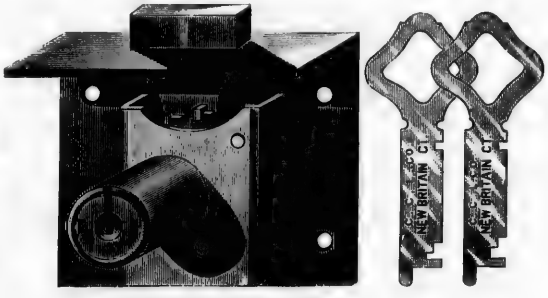


No. 0509

No. **0509**—3 inch, **Brass**, Self Locking, Cast Brass Box, Screwed, Brass Strike, Broad Heavy Bolt, 3 Secure Levers, 1 inch from Selvedge to Key Pin, 2 Flat Bow Brass Keys, all different in a dozen..per doz. $12.00



No. 590½



Nos. **590** and **0590**

No. **590½**—1½ inch, **Iron**, Solid Square Box, Screwed, 3 Secure Levers, ½ inch from Selvedge to Centre of Cylinder, made for ½ inch Wood, 2 Nickel-Plated Flat Steel Keys, all different in a dozen, per doz..... $5.00

" **590** —1½ inch, **Iron**, Broad Heavy Bolt, 2 Secure Levers, ⅜ inch from Selvedge to Centre of Cylinder, made for ⅞ inch Wood, 2 Nickel-Plated Flat Steel Keys, all different in a dozen.....per doz. 4.50

" **0590** —1½ inch, **Brass**, Broad Heavy Bolt, 2 Secure Levers, ⅜ inch from Selvedge to Centre of Cylinder, made for ⅞ inch Wood, 2 Nickel-Plated Flat Steel Keys, all different in a dozen.....per doz. 5.00

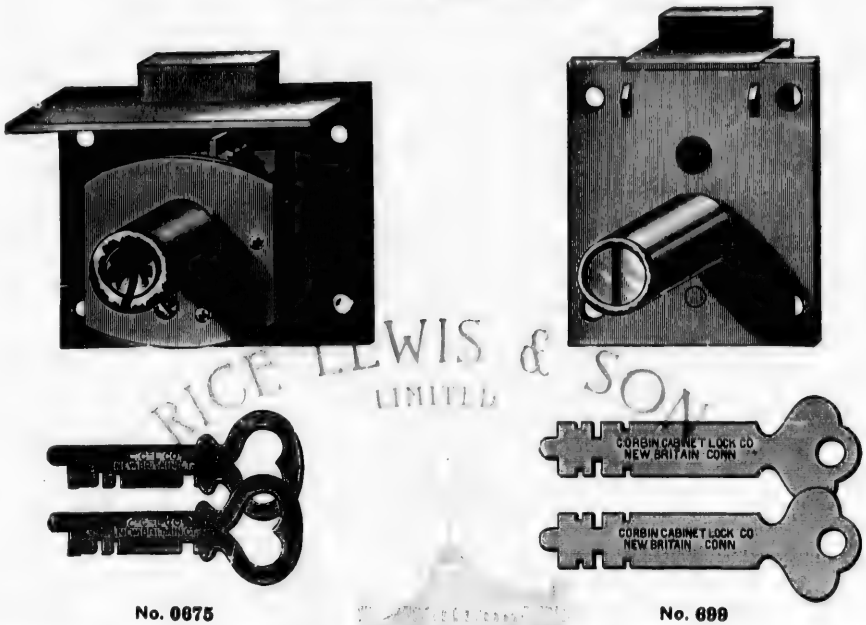
" **592** —2 inch, **Iron**, Broad Heavy Bolt, 2 Secure Levers, ⅜ inch from Selvedge to Centre of Cylinder, made for ⅞ inch Wood, 2 Nickel-Plated Flat Steel Keys, all different in a dozen.....per doz. 4.75

" **0595** —2 inch, **Brass**, Solid Square Box, Screwed, 3 Secure Levers, ⅜ inch from Selvedge to Centre of Cylinder, made for ⅞ inch Wood, 2 Nickel-Plated Flat Steel Keys, all different in a dozen, per doz..... 7.00

" **0611½**—2½ inch, **Brass**, Solid Square Box, Screwed, 3 Secure Levers, ⅜ inch from Selvedge to Centre of Cylinder, made for ⅞ inch Wood, 2 Nickel-Plated Flat Steel Keys, all different in a dozen, per doz..... 7.50

One dozen in a box.

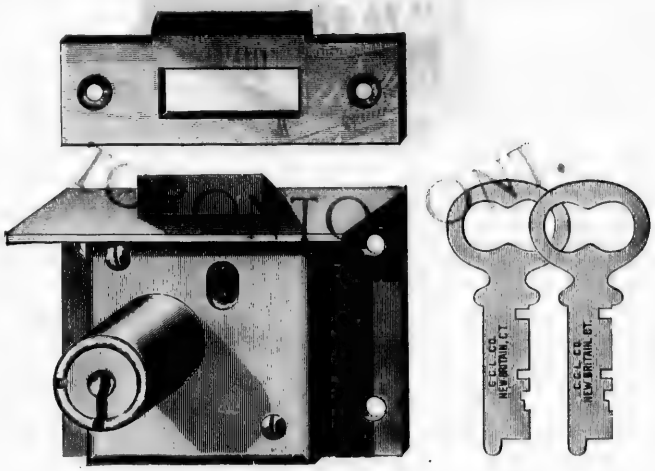
# DRAWER LOCKS




**No. 0675** **No. 699**

No. **0675**—2 inch, **Brass**, Cast Brass Box and Cylinder, Screwed, 3 Secure Levers, $\frac{7}{8}$ inch from Selvedge to Centre of Cylinder, made for $\frac{1}{4}$ inch Wood, 2 Nickel-Plated Flat Steel Keys, all different in a dozen.....per doz. $6.00

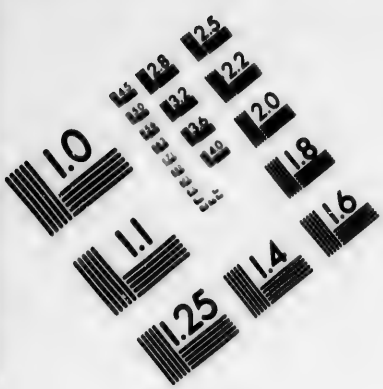
" **699**—1$\frac{1}{4}$ x 2 inch, **Iron**, Broad Bolt, 2 Secure Levers, 1$\frac{1}{8}$ inch from Selvedge to Centre of Cylinder, made for $\frac{7}{8}$ inch Wood, 2 Nickel-Plated Flat Steel Keys, all different in a dozen.....per doz. 4.50




**No. 0601½**

No. **0601½**—2$\frac{1}{4}$ inch, **Brass**, Solid Square Box, Heavy Latch Bolt, Brass Strike, 3 Secure Levers, $\frac{7}{8}$ inch from Selvedge to Centre of Cylinder, made for $\frac{1}{4}$ inch Wood, 2 Nickel-Plated Flat Steel Keys, all different in a dozen, Cylinders cut for both Cupboard and Drawer..... 9.00

One dozen in a box.



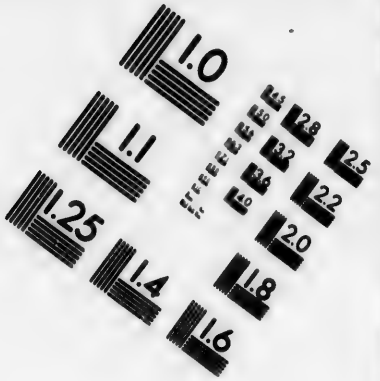
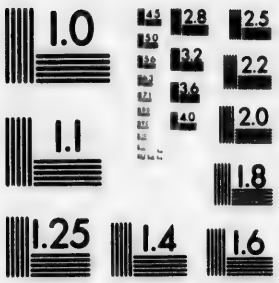
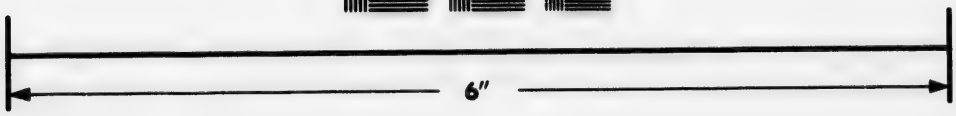



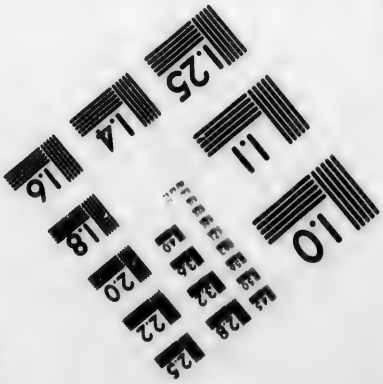

**IMAGE EVALUATION**
**TEST TARGET (MT-3)**





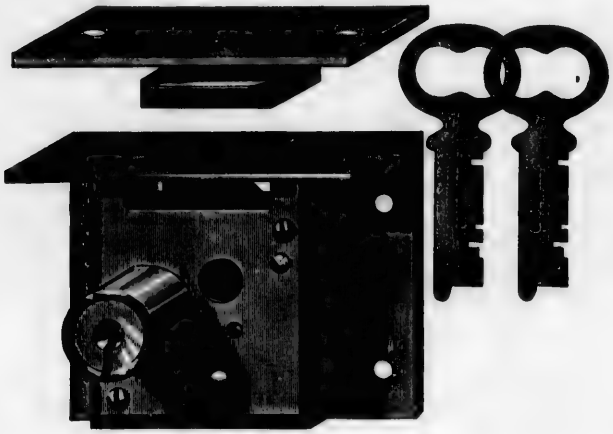





Photographic
Sciences
Corporation

23 WEST MAIN STREET
WEBSTER, N.Y. 14580
(716) 872-4503

# DRAWER LOCKS

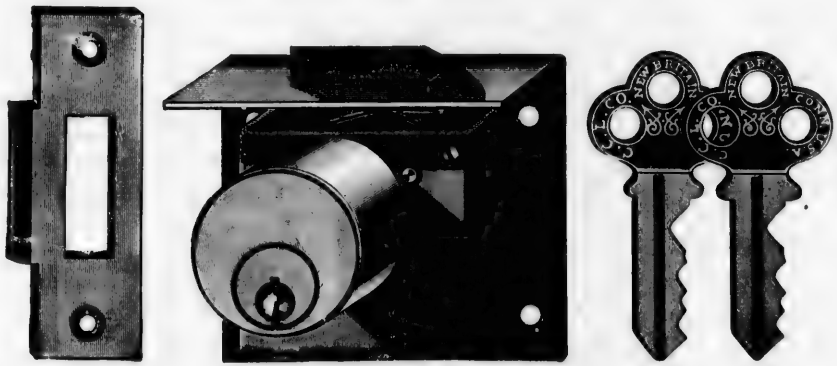


No. 0681

No. **0681**—2½ inch, **Brass**, Self-Locking, Solid Square Box, Screwed, Heavy Cast Brass Strike, 3 Secure Levers, ¾ inch from Selvedge to Centre of Cylinder, made for ¾ inch Wood, 2 Nickel-Plated Flat Steel Keys, all different in a dozen ..... per doz. $9.00

One dozen in a box.

## CYLINDER LOCKS, ALL BRASS, PIN TUMBLER




No. 0685½

**SELF-LOCKING**

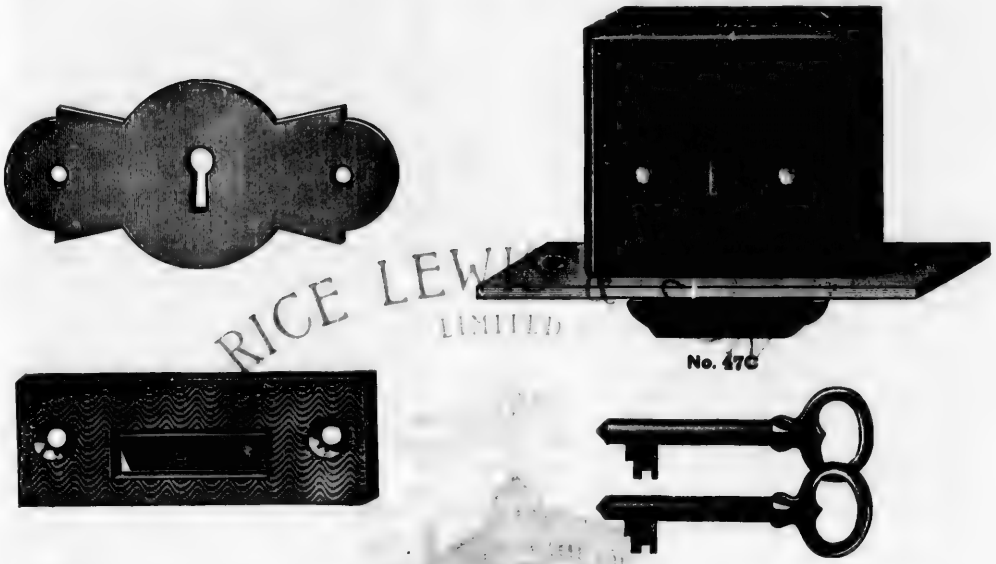
No. **0685½**—Corbin's, 2¼ x 1⅛ inch, ¾ inch from Selvedge to Centre of Cylinder, made for ⅜ inch Wood, 2 German Silver Keys, no two Locks alike ..... per doz. 17.00

" **563S**—Yale, 2¼ x 1⅛ inch, 1 inch from Selvedge to Centre of Cylinder, made for ⅜ inch Wood, 2 German Silver Yale Paracentric Keys, no two Locks alike ..... per doz. 17.80

One in a box.

# ROLLING TOP DESK LOCKS

## PATENT MORTISE, SELF-LOCKING



No. 47C

No. 47C—3 inch, Brass Selvedge and Strike, Patent Self-Closing Striker, Gilt, Brass, Plain Escutcheon, 4 Secure Levers, 2 Nickel-Plated Steel Keys, all different in a dozen.....per doz. $8.00

One dozen in a box, with Screws.

## MORTISE DESK LOCK



No. 60 No. 882

No. 60—2½ inch, Mortise, Brass Selvedge, Bolts and Strike, Fine Flat Bow Keys.....per doz. 2.00
" 882—2½ " " " " " Double Hook Bolt, Fine Flat Bow Keys " 3.00

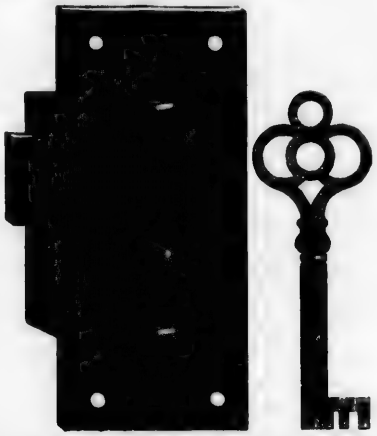
No. 60, ⅞ inch from Selvedge to Key Pin; No. 882, ⅞ inch.

One dozen in a box.

# WARDROBE OR CUPBOARD LOCKS



Nos. **700** and **0700**

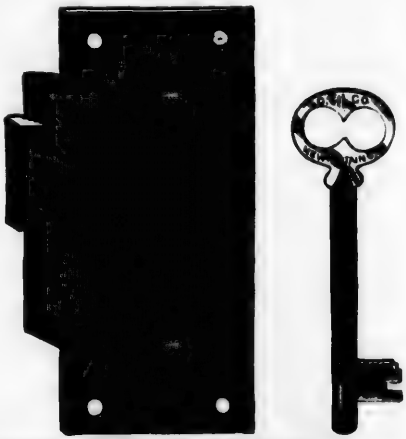


Nos. **702** and **0703**. Style of Nos. **704** to **709**

| | | | |
|---|---|---|---|
| No. | **700**—1¼ x ⅝ inch, **Iron**, Solid Square Box, Bolt Shoots Right and Left, 12 Keyed | per doz. | $1.50 |
| " | **0700**—1¼ x ⅝ " **Brass** " " " " " " " " | " | 2.00 |
| " | **703**—2¼ x 1¼ " **Iron** " " " " " " " " | " | 1.00 |
| " | **0703**—2¼ x 1¼ " **Brass** " " " " " " " " | " | 2.25 |
| " | **704**—3 x 1⅝ " **Iron** (not Polished), Solid Square Box, Bolt Shoots Right and Left, 12 Keyed | " | 1.00 |
| " | **705**—3 x 1⅝ " " (Polished) " " " " " " " " | " | 1.62 |
| " | **709**—3½ x 2 " " Solid Square Box, Bolt Shoots Right and Left, 12 Keyed | " | 1.87 |



Nos. **0721**. Style of Nos. **722** and **0722**



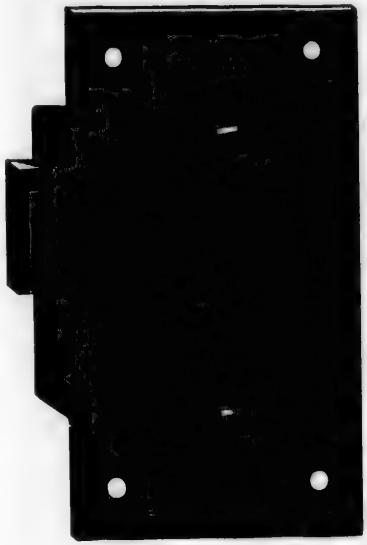
Nos. **741½** and **0741½**. Style of No. **742**

Keys all different in a dozen.

| | | | |
|---|---|---|---|
| No. | **0721**—2⅜ x 1¼ inch, **Brass**, Solid Square Box, Brass Bolt Shoots Right and Left, 2 Secure Levers, Brass Key | per doz. | $5.00 |
| " | **722**—3 x 1¼ inch, **Iron**, Solid Square Box, Brass Bolt Shoots Right and Left, 2 Secure Levers, Steel Key | per doz. | 4.00 |
| " | **0722**—3 x 1¼ inch, **Brass**, Solid Square Box, Brass Bolt Shoots Right and Left, 2 Secure Levers, Brass Key | per doz. | 5.50 |
| " | **741½**—2⅜ x 1¼ inch, **Iron**, Solid Square Box, Brass Bolt Shoots Right and Left, 2 Secure Levers, Steel Key | per doz. | 5.00 |
| " | **0741½**—2⅜ x 1¼ inch, **Brass**, Solid Square Box, Brass Bolt Shoots Right and Left, 2 Secure Levers, Steel Key | per doz. | 6.38 |
| " | **742**—3 x 1¼ inch, **Iron**, Solid Square Box, Brass Bolt Shoots Right and Left, 2 Secure Levers, Steel Key | per doz. | 5.25 |

One dozen in a box.

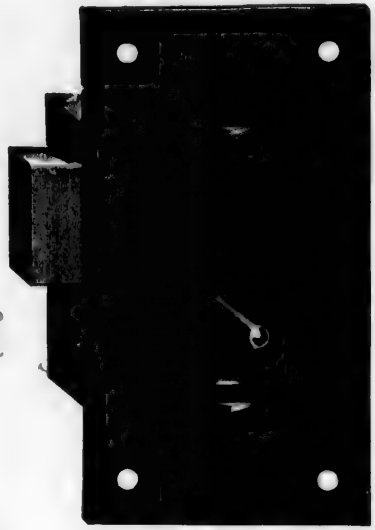
# WARDROBE OR CUPBOARD LOCKS



No. 712. Style of No. 714

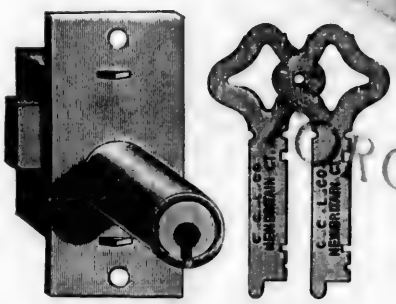


Keys all different in a dozen.



No. 725. Style of No. 724

| | | | | | | | | | | | Per doz. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. 712—3¼ x 2 | inch, | Iron | Solid | Square | Box, | Iron | Bolt | Shoots | Both Ways, | 2 Secure Levers, Steel Key | $2.25 |
| " 714—4 x 2½ | " | Iron | " | " | " | " | " | " | 2 | " " | 2.50 |
| " 724—3 x 1¾ | " | Iron | " | " | Brass | " | " | " | 2 | " " | 4.00 |
| " 725—3¼ x 2 | " | Iron | " | " | Iron | " | " | " | 2 | " " | 4.00 |



Nos. 749 and 0749





Nos. 750 to 0751

Keys all different in a dozen.

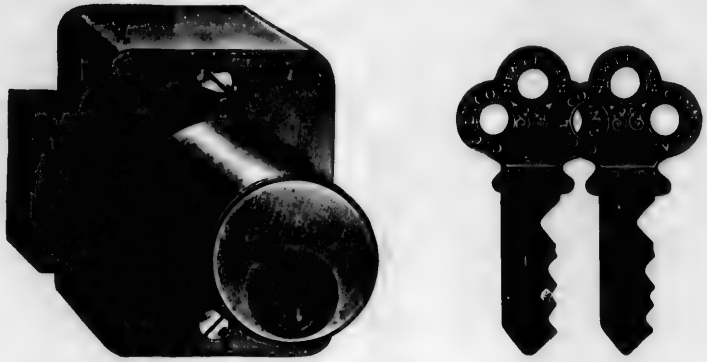
| | | | | | | | | | | | Per doz. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. 749—1¾ x 1¼ | inch, | Iron, | Brass | Bolt | Shoots | Right | and | Left, | 2 | Secure Levers, 2 Keyed | 5.50 |
| " 0749 1¾ x 1¼ | " | Brass, | " | " | " | " | " | " | 2 | " " | 6.50 |
| " 750—2¼ x 1¼ | " | Iron, | " | " | " | " | " | " | 2 | " " | 6.00 |
| " 0750—2¼ x 1¼ | " | Brass, | " | " | " | " | " | " | 2 | " " | 8.00 |
| " 751—3 x 1¼ | " | Iron, | " | " | " | " | " | " | 2 | " " | 7.00 |
| " 0751—3 x 1¼ | " | Brass, | " | " | " | " | " | " | 2 | " " | 9.00 |

Locks 749, 0749 have ¼ inch Cylinder; all others assorted, ⅜, 1 and 1½ inch.

One dozen in a box.

# WARDROBE OR CUPBOARD LOCKS

## ALL BRASS, PIN TUMBLER



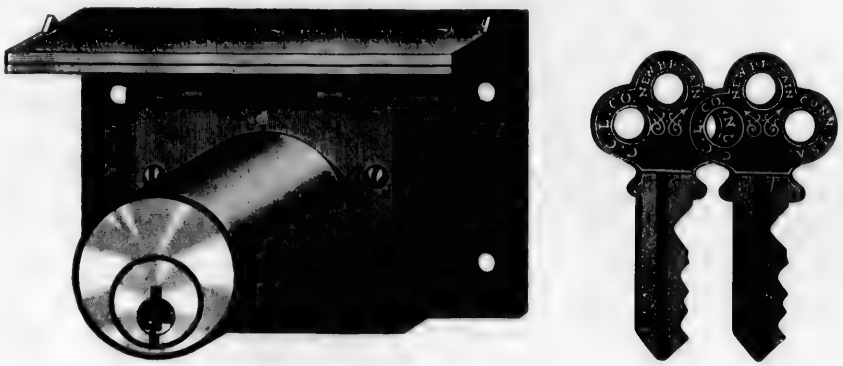
No. 0764

No. **0764**—Corbin, 2 x 1¼ inch, Heavy Brass Bolt, for either Right or Left Hand, 2 German Silver Keys, no two Locks alike.....per doz. $18.85

" **511**—Yale, 2 x 1¼ inch, Heavy Brass Bolt, for either Right or Left Hand, 2 German Silver Yale Paracentric Keys, no two Locks alike.....per doz. 19.35

## CHEST LOCKS

### ALL BRASS, PIN TUMBLER



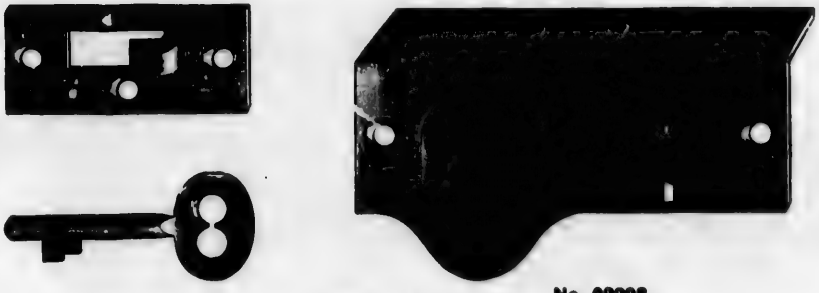
No. 0170

No. **0170**—Corbin, 3 x 1¾ inch, 1⅛ inch from Selvedge to Centre of Cylinder, for 1¼ inch Wood, 2 German Silver Keys, no two Locks alike.....per doz. 27.25

" **521**—Yale, 4 x 2 inch, 1¼ inch from Selvedge to Centre of Cylinder, for 1¼ inch Wood, 2 German Silver Paracentric Keys, no two Locks alike.....per doz. 33.65

One in a box.

# SHOW CASE LOCKS



No. 02296

No. 02296—2½ x 1 inch, Cast Bronze Metal, Spring Catch, 1 Tumbler, Bronze Strike and Key, Finely Finished and Lacquered ..... per doz. $10.00

RICE LEWIS & SON LIMITED

## CASH BOX LOCKS

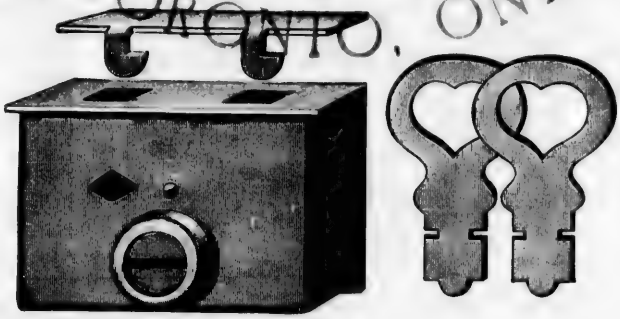


No. 827

No. 826—2½ inch, Iron, Brass Double Link and Cylinder, 2 Secure Levers, 1 inch from Selvedge to Centre of Cylinder, 2 Nickel-Plated Flat Steel Keys, all different in a dozen ..... per doz. 4.00

No. 827—2½ inch, Iron, Brass Double Link and Cylinder, 3 Secure Levers, 1½ inch from Selvedge to Centre of Cylinder, 2 Nickel-Plated Flat Steel Keys, all different in a dozen ..... per doz. 4.50

TORONTO, ONT.



No 828

No. 828—2 inch, Iron, Double Link, 1 Tumbler, 1 inch from Selvedge to Centre of Cylinder, 2 Flat Steel Keys ..... per doz. 2.00

One dozen in a box.

# CHEST LOCKS

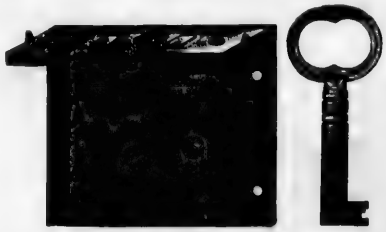


No. 01. Style of Nos. 002 and 04

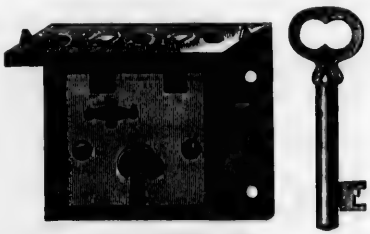


No. 34. Style of Nos. 36 and 38

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| No. | 01 | 1½ inch, | Brass, | ¼ | inch from Selvedge to Key Pin, | Single Link | per doz. | $0.75 |
| " | 002 | 1½ " | Brass, | ¼ | " " " " | " | " | 0.90 |
| " | 04 | 2 " | Brass, | ¼ | " " " " | " | " | 1.00 |
| " | 34 | 2½ " | Iron, | ¼ | " " " " | Double Link | " | 2.12 |
| " | 36 | 3 " | Iron, | 1 | " " " " | " | " | 2.37 |
| " | 38 | 3½ " | Iron, | 1¼ | " " " " | " | " | 2.75 |



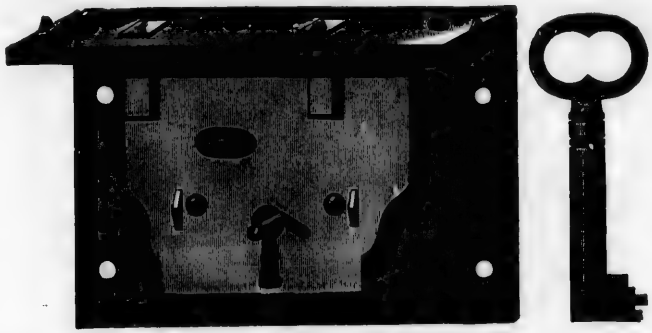
No. 0100. Style of Nos. 104 and 106



No. 0120

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| No. | 0100 | 1½ inch, | Brass, | Solid Box, | 2 | Secure Levers, | ¼ | inch from Selvedge to Key Pin | per doz. | 3.50 |
| " | 104 | 2½ " | Iron, | " | 2 | " | 1 | " " " | " | 3.50 |
| " | 106 | 3 " | Iron, | " | 2 | " | 1¼ | " " " | " | 4.00 |
| " | 0120 | 1½ " | Brass, | " | 2 | " | ¼ | " " " Key Tube | " | 6.75 |

Nos. 0100 to 106 Flat Bow Keys, No. 0120 Solid Steel Key, all different in a dozen.



No. 70. Style of Nos. 71 and 74

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| No. | 70 | 3 inch, | Iron, | 2 | Secure Levers, | 1¼ | inch from Selvedge to Key Pin | per doz. | 4.00 |
| " | 71 | 3½ " | Iron, | 2 | " | 1¼ | " " " " | " | 4.25 |
| " | 74 | 4 " | Iron, | 2 | " | 1½ | " " " " | " | 4.75 |

Flat Bow Keys, all different in a dozen.

One dozen in a box.

# CHEST LOCKS

## SELF-LOCKING

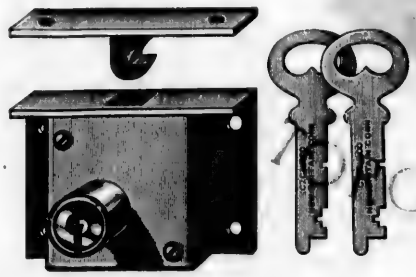


No. 82

No. **82**—4 inch, **Iron**, Solid Box, Secret Wards, Brass Escutcheon, 1⅛ inch from Selvedge to Key Pin, Double Bitted Keys, all different ..... per doz. $6.00

" **83**—4 inch, **Iron**, Solid Box, Secret Wards, Brass Escutcheon, 1⅛ inch from Selvedge to Key Pin, Double Bitted Keys, all different ..... 8.00

**Half-dozen in a box.**



No. **0148**



No. **143**. Style of No. **0144**

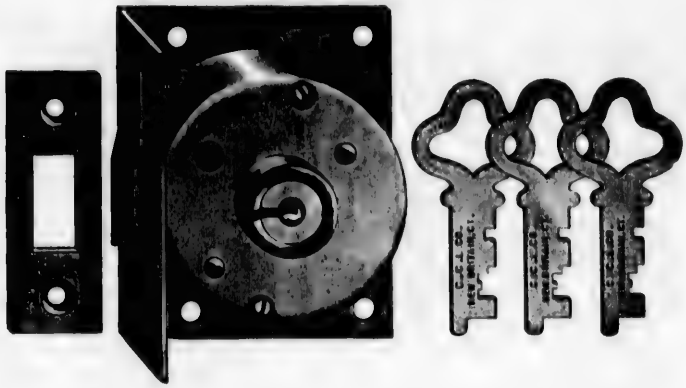
No. **0148**—1½ inch, **Brass**, Solid Box, 4 Secure Levers, Self-Locking, ⅜ inch from Selvedge to Centre of Cylinder, made for ½ inch Wood, 2 Nickel-Plated Flat Steel Keys, all different in a dozen, per doz. ..... 6.00

" **143**—2½ inch, **Iron**, Solid Box, 3 Secure Levers, ⅞ inch from Selvedge to Centre of Cylinder, made for ⅝ inch Wood, 2 Nickel-Plated Flat Steel Keys, all different in a dozen ..... per doz. 9.00

" **0144**—2½ inch, **Brass**, Solid Box, 4 Secure Levers, 1 inch from Selvedge to Centre of Cylinder, made for ⅝ to 1¼ inch Wood, 2 Nickel-Plated Flat Steel Keys, all different in a dozen ..... per doz. 12.00

**One dozen in a box.**

# POST OFFICE BOX LOCKS



No. **0589½**—1¼ inch, **Brass**, Self Locking, 4 Secure Levers, 3 Keys to each Lock, for ⅞ inch Wood ....per doz. **$9.00**

One dozen in a box.

## COMPARATIVE LIST OF CABINET LOCKS

| CORBIN | EAGLE | KEYED | PRICE PER DOZ. | CORBIN | EAGLE | KEYED | PRICE PER DOZ. | CORBIN | EAGLE | KEYED | PRICE PER DOZ. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **01** | 42 | 12 | $0.75 | **469** | 648 | 12 | $5.60 | **703** | 417 | 12 | $1.60 |
| **002** | ..... | 12 | 0.90 | **0479** | 205 | 12 | 8.00 | **0703** | 418 | 12 | 2.25 |
| **04** | 35 | 12 | 1.00 | **0480** | 0226 | 12 | 7.50 | **704** | 510 | 12 | 1.00 |
| **34** | 166 | 12 | 2.12 | **0482** | 0224 | 12 | 10.00 | **705** | 393 | 12 | 1.62 |
| **36** | 160 | 12 | 2.37 | **0509** | ..... | 24 | 12.00 | **707** | 639 | 12 | 9.50 |
| **38** | 83 | 12 | 2.75 | **0571** | ..... | 12 | 5.00 | **0707** | 637 | 12 | 13.25 |
| **47C** | 1864C | 24 | 8.00 | **0576** | 1218 | 12 | 7.00 | **709** | 500 | 12 | 1.87 |
| **60** | 206 | 12 | 2.00 | **0589½** | ..... | 36 | 9.00 | **712** | 174 | 12 | 2.25 |
| **70** | 216 | 12 | 4 00 | **590** | 6090 | 24 | 4.50 | **714** | 173 | 12 | 2.50 |
| **71** | 217 | 12 | 4.25 | **590½** | ..... | 24 | 5.00 | **0721** | 6066 | 12 | 5.00 |
| **74** | 91 | 12 | 4.75 | **0590** | 6080 | 24 | 5.00 | **722** | 6065 | 12 | 4.00 |
| **82** | 219 | 12 | 6.00 | **592** | 1079 | 24 | 4.75 | **0722** | 6064 | 12 | 5.50 |
| **83** | 218 | 12 | 8.00 | **0595** | 6092-3T | 24 | 7.00 | **724** | 148 | 12 | 4.00 |
| **0100** | 472 | 12 | 3.50 | **0601½** | 6004 | 24 | 9.00 | **725** | 157 | 12 | 4.00 |
| **104** | 427 | 12 | 3.50 | **0611½** | 6101 | 24 | 7.50 | **741½** | 1203 | 12 | 5.00 |
| **106** | 410 | 12 | 4.00 | **0623** | 667 | 12 | 1.00 | **0741½** | 1202 | 12 | 6.38 |
| **0120** | 1084 | 12 | 6.75 | **626** | 72 | 3 | 0.40 | **742** | 569 | 12 | 5.25 |
| **143** | 1058 | 24 | 9.00 | **626** | 72 | 12 | 0.66 | **749** | 1055 | 24 | 5.50 |
| **0144** | 6071 | 24 | 12.00 | **626½** | 1600 | 3 | 0.40 | **0749** | 1056 | 24 | 6.50 |
| **0148** | ..... | 24 | 6.00 | **626½** | 1600 | 12 | 0.66 | **750** | 7098 | 24 | 6.00 |
| **406** | 449 | 3 | 0.40 | **634** | 161 | 12 | 1.15 | **0750** | 6068 | 24 | 8.00 |
| **406** | 449 | 12 | 0.66 | **635** | 180 | 12 | 1.50 | **751** | 7074 | 24 | 7.00 |
| **411** | 312 | 12 | 2.00 | **638** | 240 | 12 | 1.80 | **0751** | 6074 | 24 | 9.00 |
| **430** | 96 | 12 | 3.00 | **0675** | 01901 | 24 | 6.00 | **826** | ..... | 24 | 4.00 |
| **0430** | 70 | 12 | 4.00 | **0681** | 01928 | 24 | 9.00 | **827** | ..... | 24 | 4 50 |
| **431** | 177 | 12 | 3.25 | **699** | 1848 | 24 | 4.50 | **828** | 624 | 24 | 2.00 |
| **457** | 237 | 12 | 3.25 | **700** | 509 | 12 | 1.50 | **861** | 431 | 12 | 1.50 |
| **0482** | 413 | 12 | 5 00 | **0700** | 508 | 12 | 2.00 | **882** | 193 | 12 | 3 00 |

# TRUNK LOCKS

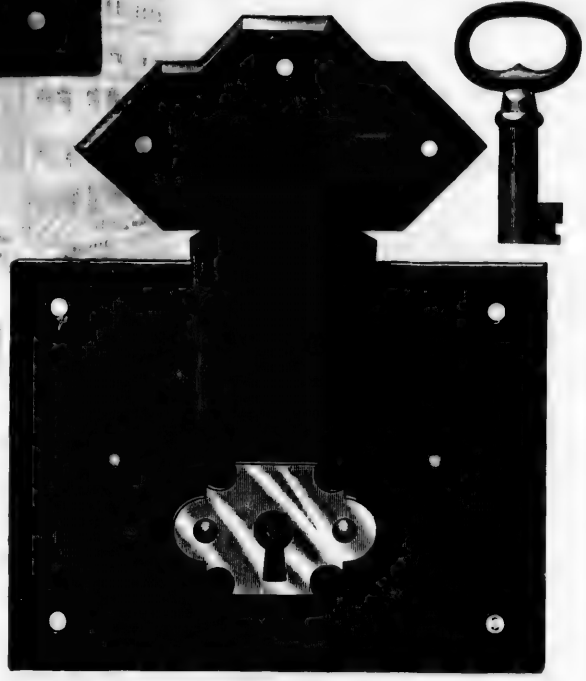


Nos. 1431 and 1432

No. **1431**—3½ inch, Iron, Black Japanned, Brass Drop and Escutcheon.....per doz. $1.05

" **1432**—3½ inch, Iron, Black Japanned, Brass Drop and Escutcheon, Fancy, Solid Malleable Hasp.....per doz. 1.15

One dozen in a box.



No. 1434

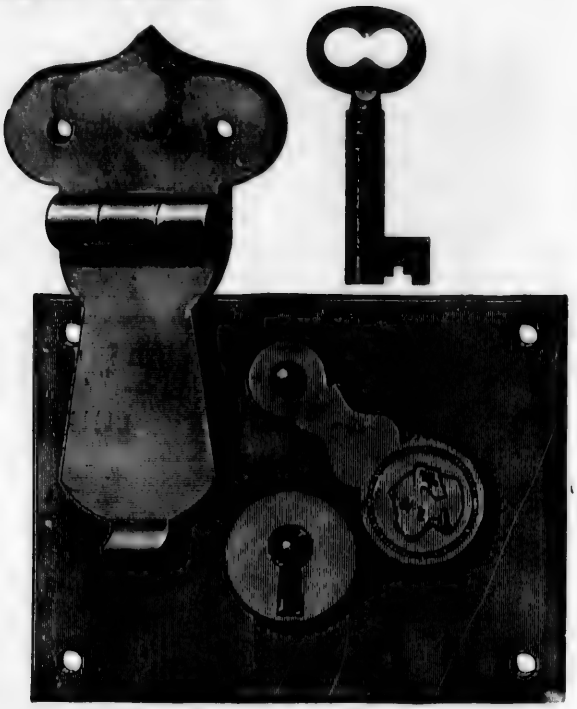
No. **1434**—3½ inch, Iron, Black Japanned, Brass Escutcheon, Malleable Spring Hasp.....per doz. $1.80

One dozen in a box.

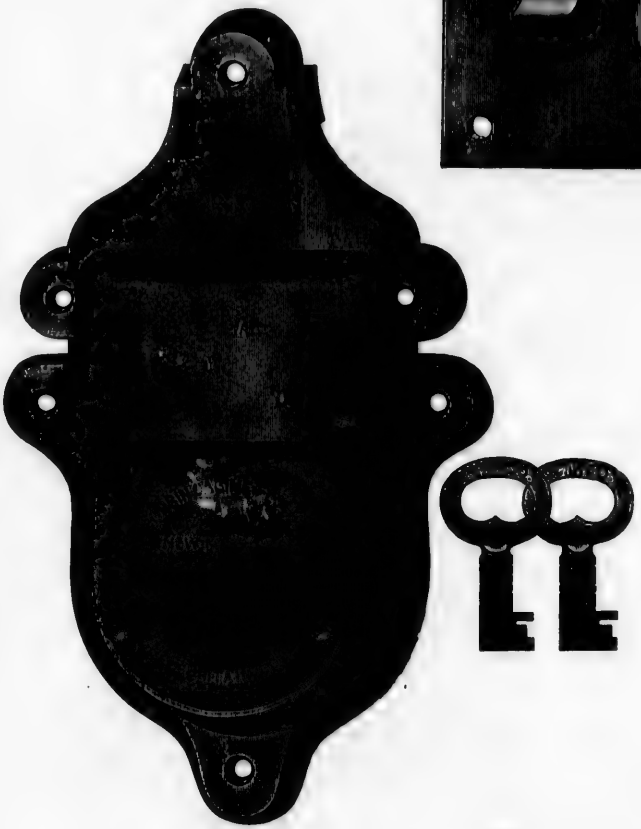
# TRUNK LOCKS

No. 1491—4 inch, Iron, Red Japanned, Brass Drop and Escutcheon, Solid Stop Hasp, Tumbler and Ward, Flat Bow Keys...per doz. $6.25

One dozen in a box.



No. 1491



No. 1009

No. 1009—5½ × 3¼ inch, Extra Heavy, Brassed Frame, Brassed Centre, 2 Secure Levers, Flat Bow Steel Keys, 3 changes in a dozen, per doz..... $10.25

One dozen in a box.

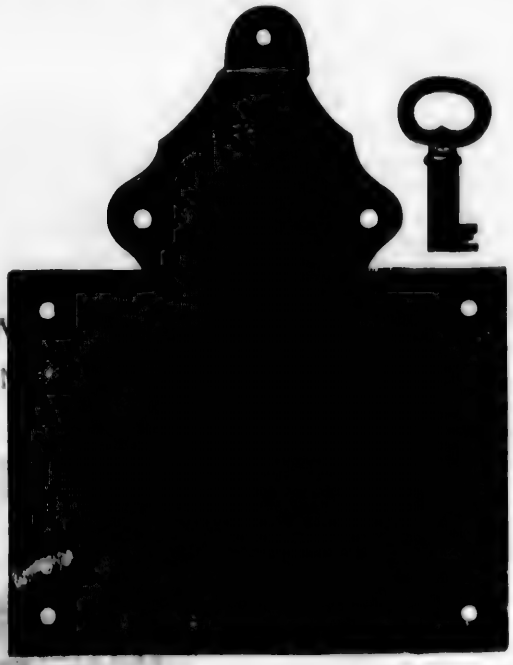
# SURFACE TRUNK LOCKS

## TIN-PLATE TINNED LOCKS

| | | | |
|---|---|---|---|
| No. **1225**—3 inch | ..... | per doz. | $2.35 |
| " **1230**—3½ " | ..... | " | 2.50 |
| " **1250**—4 " | ..... | " | 2.75 |

**With Spring to throw open Hasp when opened.**

**One dozen in a box.**



**No. 1230.** Style of Nos. **1225** and **1250**



**No. 1122**

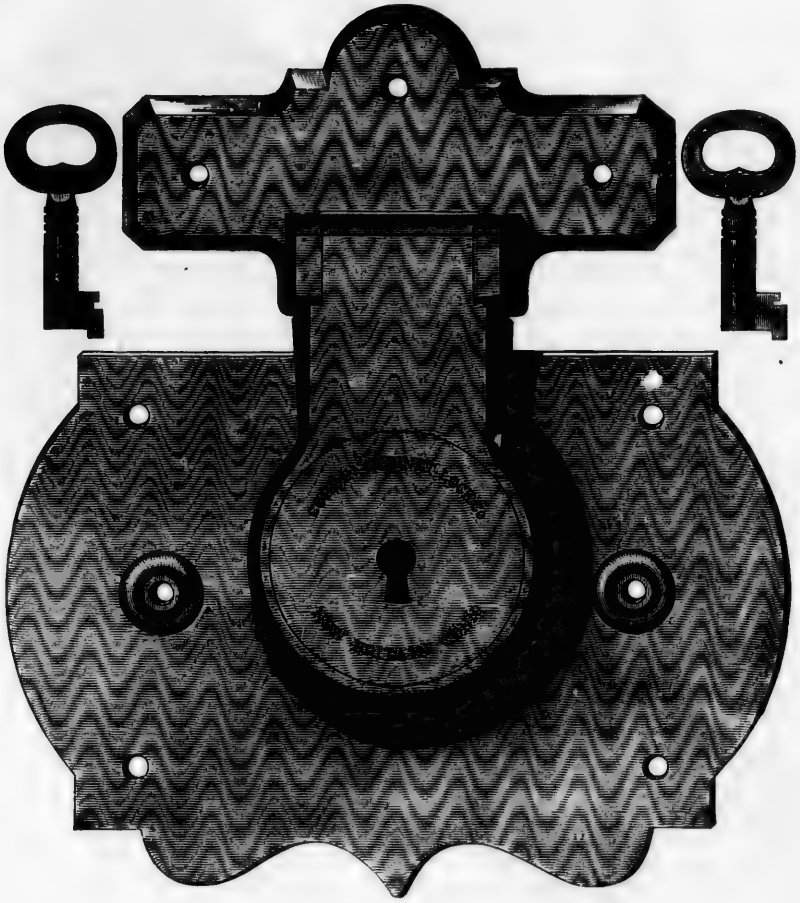
**No. 1122**—5x 3½ inch, Iron, Tinned Frame, Japanned Hasp..... per doz. $3.30

**With Spring to throw open Hasp when opened.**

**One dozen in a box.**

# TRUNK LOCKS

## BRASS SECURE LEVER



No. 1038

**No. 1038**—5 inch Brass, Cast Brass Hasp, 2 Secure Levers and 2 Wards, Spring throws open Hasp when Unlocked, 6 Changes in a dozen, 2 Flat Bow, Steel Keys, Finished in Fancy Patterns.. per doz. $15.00

One dozen in a box.

# TRUNK LOCKS

## WROUGHT STEEL SECURE LEVER




No. 01048½

$15.00

No. 01048½—Steel, Not Polished, Brass Plated, 1 Secure Lever..... .....per doz. $8.75

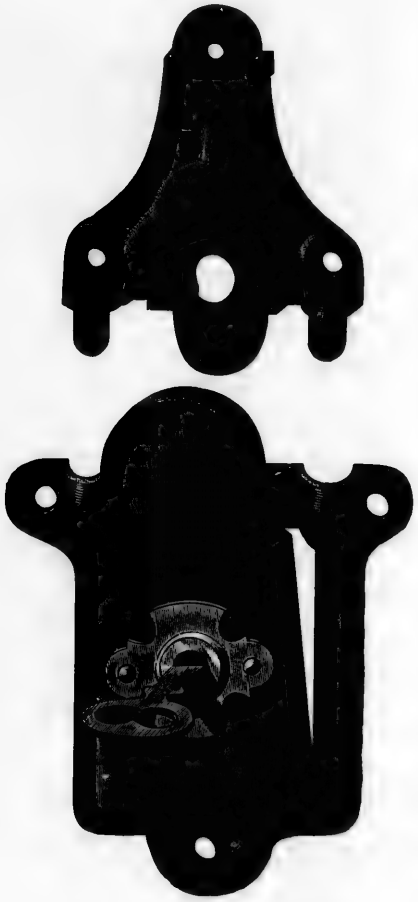
One dozen in a box.

# TRUNK LOCK AND CATCH

**COMBINED**



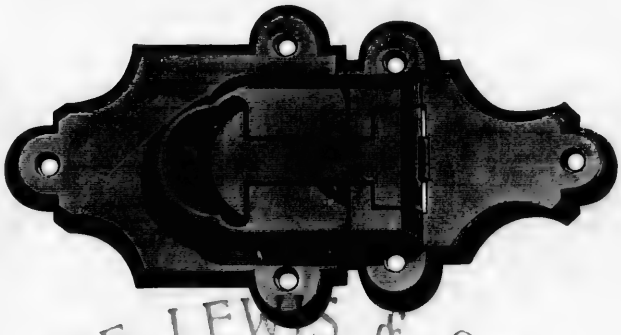
No. 1107, LOCKED



No. 1107, UNLOCKED

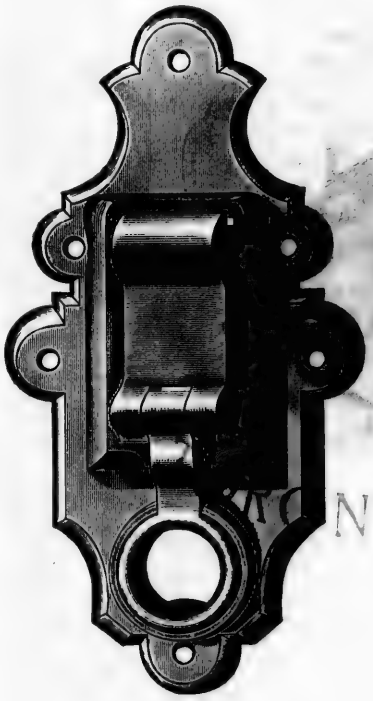
No. **1107**—4¾ x 1⅛ inch, Iron, Tinned Frame, Japanned Centre, with Spring to throw open Hasp when Unlocked, 3 Changes in a dozen.....per doz. $2.90

# TRUNK CATCHES

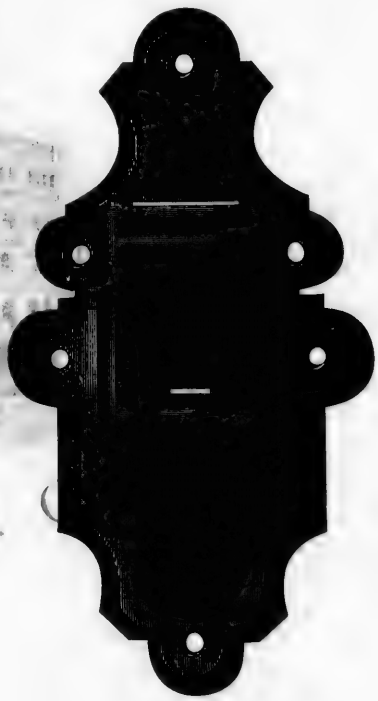


No. 1800

RICE LEWIS & SON LIMITED



No. 1805



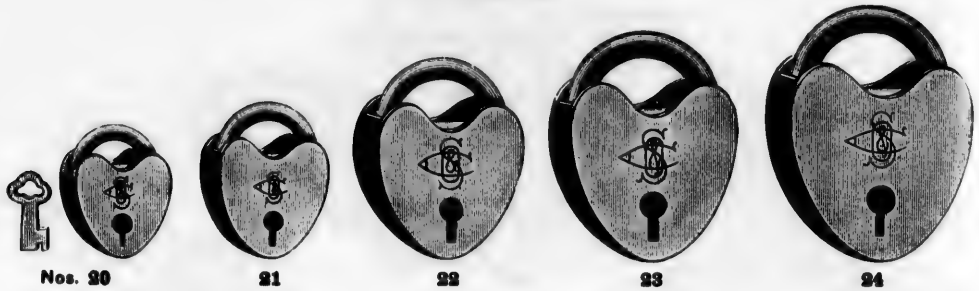
No. 1810

| | | | |
|---|---|---|---|
| No. 1800—4 | inch, Malleable Iron, Black Japanned | per doz. | $1.00 |
| " 1805—4½ | " " " " " | " | 1.25 |
| " 1810—4½ | " " " " " | " | 1.25 |

# PADLOCKS

## WROUGHT BRASS. FOR BAGS, SMALL BOXES, DOG COLLARS, ETC.

Full size cuts.



Nos. 20 21 22 23 24

### WITH FLAT STEEL KEY

| Nos. | 20 | 21 | 22 | 23 | 24 |
|---|---|---|---|---|---|
| Per dozen | $4.50 | 4.50 | 5.00 | 5.50 | 6.00 |

No. 60—Nickel-Plated (same size as No. 20) ..... per doz. $5.75



Nos. 30 31 32 33 34

### WITH STEEL BIT KEY

| Nos. | 30 | 31 | 32 | 33 | 34 |
|---|---|---|---|---|---|
| Per dozen | $4.50 | 4.50 | 5.00 | 5.50 | 6.00 |

One dozen in a box.



No. 1

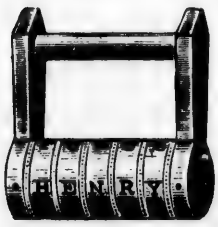
## FINE SCANDINAVIAN CHARM LOCK

| | | Gilt. | Nickeled. |
|---|---|---|---|
| No. 1 | per doz. | .... | 2.05 |
| " 2 | " | $2.85 | 2.85 |

One dozen in a box.



No. 2




## LETTER PADLOCKS

No. 2844

### BRASS ROLLS

| | | |
|---|---|---|
| 4 Rolls | per doz. | $3.00 |
| 5 " | " | 7.50 |

One dozen in a box.

# GEM PADLOCKS

## SPRING SHACKLE, SELF-LOCKING




Nos. 0900 | 902 and 0902 | 904 and 0904 | 906 and 0906

| | | |
|---|---|---|
| No. 0900—Brass, ¾ inch, Flat Steel Key | per doz. | $2.25 |
| " 0902—Brass, 1 " " " assorted, 4 changes in a dozen | " | 2.25 |
| " 0904—Brass, 1½ " " " " 4 " " | " | 2.50 |
| " 0906—Brass, 1½ " " " " 6 " " | " | 3.00 |
| " 902—Iron, Japanned, 1 inch, Flat Steel Key | " | 1.20 |
| " 904—Iron, " 1½ " " " | " | 1.25 |
| " 906—Iron, " 1½ " " " | " | 1.35 |




Nos. 908 and 0908 | Nos. 910 and 0910

| | | |
|---|---|---|
| No. 0908—Brass, 1½ inch, Flat Steel Key | per doz. | 3.50 |
| " 0910—Brass, 2 " " " " | " | 4.00 |
| " 908—Iron, Japanned, 1½ inch, Flat Steel Key | " | 1.50 |
| " 910—Iron, " 2 " " " | " | 2.00 |

One dozen in a box.

# PADLOCKS

**Full size cuts.**




**No. 303**




**No. 76**

No. **303**—**Aluminum Bronze**, Spring Shackle, 2 Flat Steel Keys.....per doz. $1.90
" **76**—**Tiger, Steel**, Dark Finish, Spring Shackle, 2 Flat Steel Keys..... " 3.25




**Nos. 44 and 45. Style of No. 993½**




**No. 96**

No. **44** —Jackson, **Steel, Dark Finish**, Spring Shackle, 3 Levers, 2 Flat Steel Keys.....per doz. 2.80
" **45** — " **Brass**, Spring Shackle, 3 Levers, 2 Flat Steel Keys..... " 3.75
" **993½**—Corbin, **Steel**, Japanned Finish, Spring Shackle, 4 Levers, 2 Flat Steel Keys..... " 2.65
" **96** —Protector, **Steel**, Dark Finish, " " 3 " 2 " " ..... " 2.50

**Half-dozen in a box.**

# PADLOCKS




No. 1—Champion, 2¼ inch, Bronze Metal, 6 Levers, 2 Flat Steel Keys ..... per doz, $7.50
" 25—Harvard, 2⅛ " " " 6 " 2 " " ..... " 6.40
" 24— " 2 " " " 4 " 2 " " ..... " 5.25



No. 265. Half size.



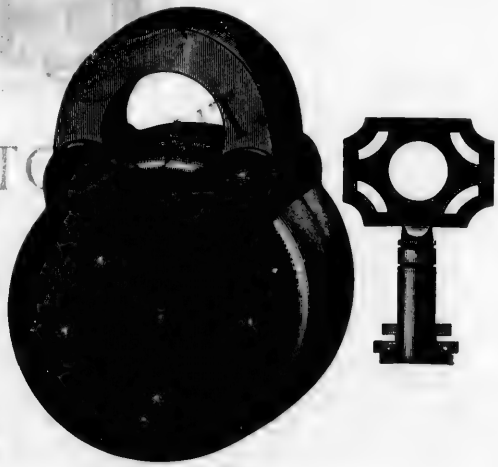
No. 357. Half size.

No. 265—1¼ inch, Bronze Metal, Spring Shackle, 2 Flat Steel Keys ..... per doz. 4.15
" 357—1½ " " " " " 2 " " ..... " 3.00




No. 997





Nos. 915 and 0915

No. 997—Iron, Bright Finish, Self Locking, Heavy Spring Shackle, 4 Secure Levers, 1 Cut Steel Key, per doz. 3.15
" 915—Iron, " " " " 6 " 1 " " " 3.25
" 0915—Brass, Plain Finish, " " " 6 " 1 " " " 5.65

# YALE PADLOCKS

**Full size cuts.**




**No. 813**






**No. 823**

**No. 813**—1 inch, Bronze Metal, 3 Tumblers, 2 Nickel-Plated Flat Steel Keys.....per doz. $12.75
" **823**—1¼ " " 3 " 2 " " " " ..... " 14.50




**No. 833**






**No. 843**

**No. 833**—1½ inch, Bronze Metal, 3 Tumblers, 2 Nickel-Plated Flat Steel Keys.....per doz. 16.00
" **843**—1¾ " " 4 " 2 " " " ..... " 18.75




**No. 853**







**No. 863**

**No. 853**—2 inch, Bronze Metal, 4 Tumblers, 2 Nickel-Plated Flat Steel Keys.....per doz. 20.65
" **863**—2¼ " " 4 " 2 " " " ..... " 22.00

Half-dozen in a box.

# YALE PADLOCKS

**Full size cuts.**

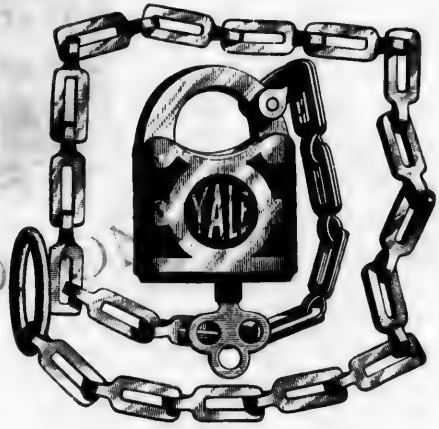



**No. 853**

No. **853**—**Steel, Nickel-Plated Shackle, Bower-Barff Finish, 4 Pin Tumblers, 2 Keys**.....per doz. **$11.25**




**No. 805**




**No. 8013B**

No. **805** —Iron, Bronze Metal Shackle, Bower-Barff Finish, 4 Pin Tumblers, 2 Flat Steel Keys....per doz. 9.00
" **8013B**—Bronze Metal, 3 Tumblers, 2 Flat Steel Keys, with 12 inches Steel Safety Chain..... " 14.25
" **8013F**— " " " " " " 39 " " " ..... " 17.65

**No. 805, half-dozen in a box; No. 8013B, quarter-dozen; No. 8013F, one only.**

# PADLOCKS



No. **7240.** Full size.




No. **206**

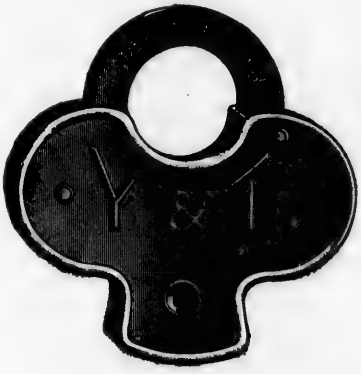


No. **205.** Full size.

No. **7240**—Bronze Metal, with Brass Chain, Self Locking, 2 Flat Steel Keys. ..... per doz. $4.50
" **206**—Brass, Nickel-Plated, with 16 inch Chain, Keys all different..... " 3.95
" **205**—Bronze Metal, Nickel-Plated Steel Chain, Self Locking, 1 Drilled Bronze Metal Key ..... " 2.25

## "YALE" BICYCLE PADLOCKS

**Full size cuts.**




"TREFOIL"




"BI-METALLIC"



"SPROCKET"

No. **1J**—"Trefoil," Japanned Steel Case, Brass Spring Shackle, 3 Lever Tumblers, 2 Flat Steel Keys, per doz. 2.80
" **6J**—"Bi-Metallic," Japanned Steel Case, Brass Shackle, 2 Lever Tumblers, 1 Flat Steel Key..... " 1.40
" **6N**— " Nickel-Plated Case, " 2 " 1 " " ..... " 2.10
" **6B**— " Bronze-Plated Case, " 2 " 1 " " ..... " 2.10
" **4J**—"Sprocket," Japanned Case, Brass Spring Shackle, 3 " 2 " " ..... " 2.80
" **4B**— " Bronze-Plated Case, " " 3 " 2 " " ..... " 3.15

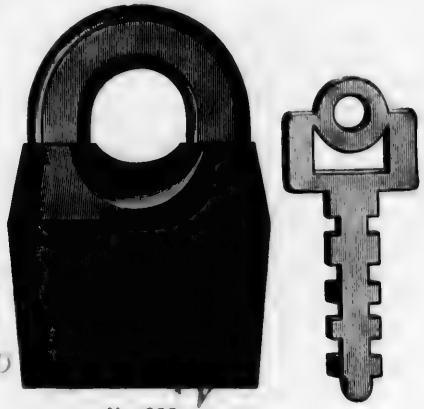
One dozen in a box. Keys all different in a dozen.

# SCANDINAVIAN PADLOCKS

**Full size cuts.**

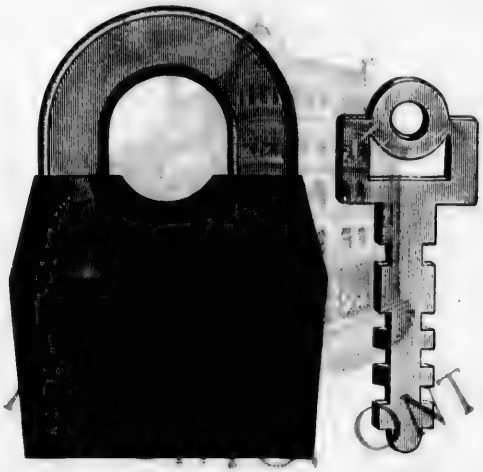


**No. 982**



**No. 983**

No. **982**—Malleable Iron, Japanned, Bright Fast Shackle, Wrought Tumblers, 2 Flat Steel Keys.... per doz. $7.00
" **983**— " " " " " " " " " " 3 " " .... " 7.85



**No. 984**

No. **984**—Malleable Iron, Japanned, Bright Fast Shackle, Wrought Tumblers, 2 Steel Keys..... per doz. 9.25

## SCANDINAVIAN PADLOCKS, CAST IRON

No. **109**—1 inch, Maroon Finish, Fast Shackles, 2 Malleable Keys ..... per doz. 1.05
" **110**—1½ " " " " " " 2 " " " ..... " 1.15
" **111**—1¾ " " " " " " 2 " " ..... " 1.35

Half-dozen in a box.

## SCANDINAVIAN, OR JAIL PADLOCKS

Extra Heavy, Secure and Strong, Malleable Iron, with Wrought Iron Tumblers.

No. **148**—1¾ inch, Japanned, Loose Shackles, 6 Tumblers, 2 Cut Steel Keys, 12 Changes to the dozen.. per doz. 20.65
" **150**—2 " " " " " 8 " 2 " " " 12 " " " .. " 25.80
" **152**—2¼ " " " " " 10 " 2 " " " 12 " " " .. " 31.00
" **154**—2½ " " " " 10 " 2 " " " 12 " " " .. " 38.70

Half-dozen in a box.

# WROUGHT IRON TUMBLER PADLOCKS



No. 122

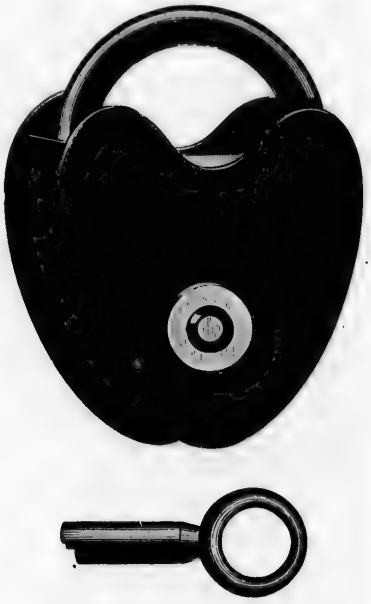


No. 200

No. **122**—2 inch, Iron, with Self-Locking Spring Shackle, Revolving Key Pin, 1 Key.....per doz. $3.40
" **200**—2¼ " Plain, without Drop, 1 Key ..... " 2.70



No. 201



No. 203

No. **201**—2¼ inch, Plain, with Brass Drop, 1 Key.....per doz. 3.25
" **203**—2¼ " with Brass Bushing, 1 Key..... " 3.75

One dozen in a box.

# WROUGHT IRON TUMBLER PADLOCKS



No. 204



Nos. 215 and 216

| | | Per doz. |
|---|---|---|
| No. 204—2½ inch, with Brass Drop and Bushing, 3 Solid Brass Wards, 4 Changes, 1 Key | | $5.00 |
| " 215—2½ " " " " Revolving Key Pin, 6 " 1 " | | 5.45 |
| " 215—2½ " " " " " " 6 " 2 " | | 6.45 |
| " 216—2½ " " " " " " Self-Locking Spring Shackle, 2 Keys | | 7.25 |



No. 301



No. 302

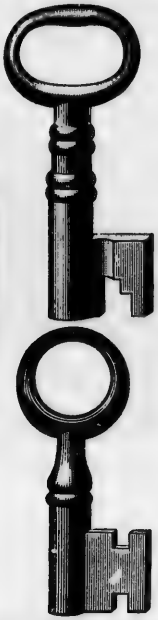
| | |
|---|---|
| No. 301—2½ inch, Plain, with Brass Drop, 1 Key ..... per doz. | 4.00 |
| " 302—2½ " with Brass Drop and Bushing, 1 Key ..... " | 4.40 |

Nos. 215 and 216, half-dozen; others, one dozen in a box.

# WROUGHT IRON TUMBLER PADLOCKS



Nos. 315 and 316





No. 352

| | | | |
|---|---|---|---|
| No. **315** | —2½ inch, with Brass Drop and Bushing, Wheel and Side Ward, 2 Keyed | per doz. | $6.25 |
| " **316** | —2½ " " " " " " " 1 " | " | 5.50 |
| " **316C** | —2½ " Same as 316, only with Chain, 1 Keyed | " | 8.25 |
| " **352** | —2½ " Assorted Brass Bushings, Heavy Shackle, 2 Keyed | " | 6.50 |



No. 321



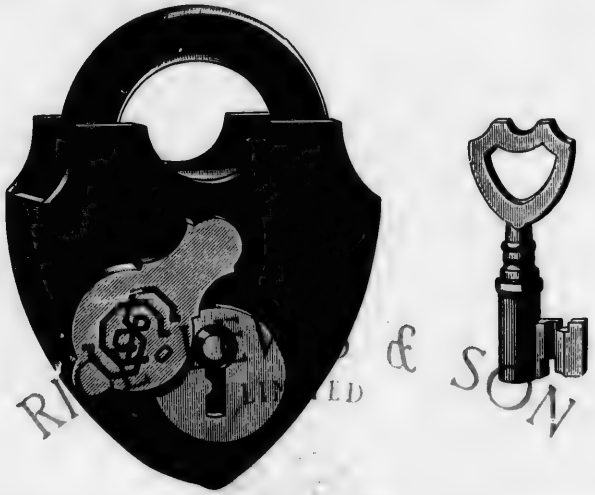


No. 325

| | | | |
|---|---|---|---|
| No. **321** | —2½ inch, with Self-Locking Spring Shackle, Brass Drop, Wheel Ward, 1 Key | per doz. | $4.75 |
| " **325** | —2½ " " " " " Brass Drop and Bushing, 1 " | " | 5.75 |
| " **325** | —2½ " " " " " " " 2 Keys | " | 7.00 |

Half-dozen in a box.

# WROUGHT IRON TUMBLER PADLOCKS



No. 335

No. 335—2½ inch, with Brass Drop and Bushing, Self Locking Spring Shackle, 12 Changes, 1 Key....per doz. $6.00
" 336—2½ " same as No. 335, only in Sets of 6; Keys all different, 1 Master Key.....per set 4.25



No. 403 No. 411 No. 411

No. 403—2½ inch, with Brass Bushing, Revolving Key Pin, 12 Changes, 1 Key.....per doz. 7.60
" 403—2½ " " " " " " 12 " 2 " ..... " 8.85
" 411—2½ " Engraved Drop, Brass Bushing, Brass Star Rivets, 12 Changes, 2 Keys..... " 9.85

Half-dozen in a box.

# WROUGHT IRON TUMBLER PADLOCKS



No. 404



Nos. 716 and 718

| | | | | |
|---|---|---|---|---|
| No. **404**—2½ | inch, | Brass Bushing, Double Chamber, Revolving Key Pin, 1 Key | per doz. | $ 7.90 |
| " **716**—3 | " | " Drop and Bushing, Solid Brass Wheel, with Double Plates, 12 Changes, 1 Key. | " | 12.50 |
| " **718**—3 | " | Same as 716, only with Single Plates, 1 Key | " | 10.00 |
| " **716**—3 | " | In sets of 6, all different, with 1 Master Key | per set | 6.75 |

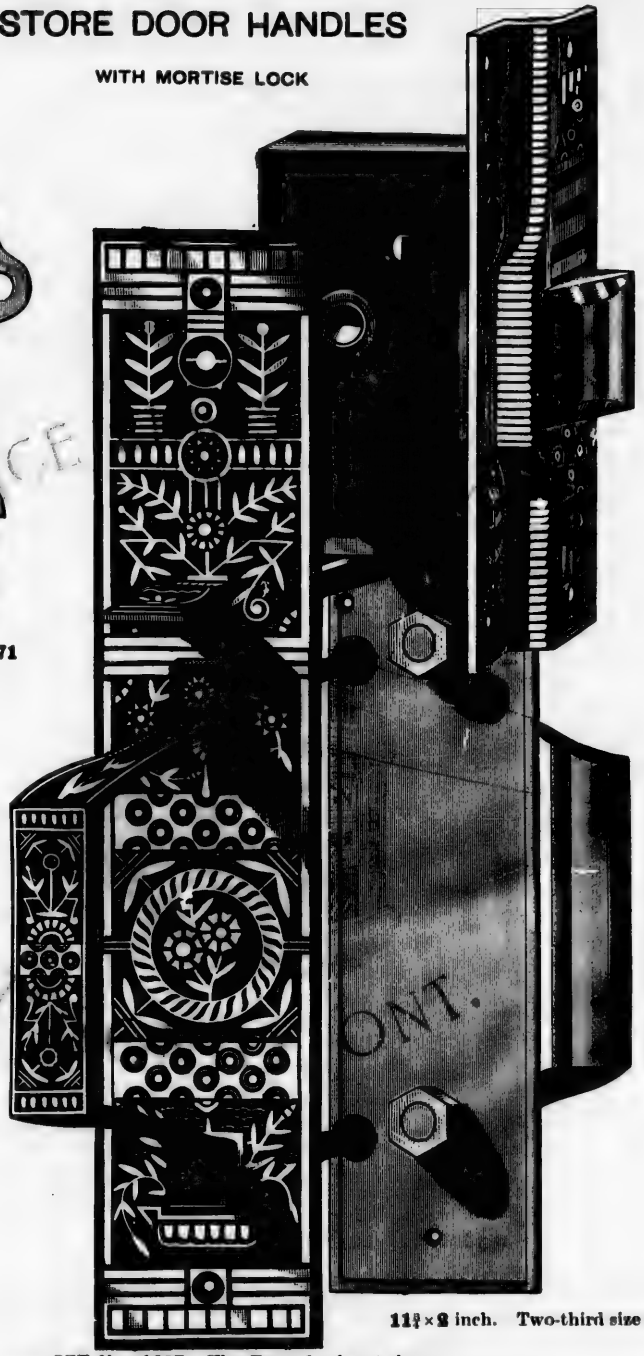
Half-dozen in a box.

# STORE DOOR HANDLES

## WITH MORTISE LOCK




Key No. **471**



**11¾ × 2** inch. Two-third size cut.

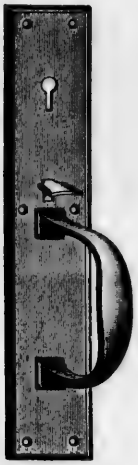
**SET No. 4627.** Flat Front Lock not shown.

| | | | |
|---|---|---|---|
| No. **4627**—Bronze-Plated, (10 Finish) Rabbeted Front Lock, Double Handles, Plate 11¾ × 2 inch | per set | $5.50 |
| " **2726**—Bronze Metal, Flat Front Lock, Double Handles, Plate 14½ × 2½ inch | " | 7.00 |
| " **2727**— " " Rabbeted Front Lock, Double Handles, Plate 14½ × 2½ inch | " | 8.00 |
| " **3727**—Amber Bronzed, " " " " " " 14½ × 2½ " | " | 4.50 |

In ordering state Hand required. One set in a box.

# STORE DOOR HANDLES WITH MORTISE LOCK

P. & F. CORBIN'S



No. 1117, 2¾ × 12¾ inch.



No. 186½, Flat Front.
" 187½, Rabbeted Front.
Size, 4½ × 3 inch.

No. 1117 × 186½—Bronze Metal, Flat Front Lock, Double Handles, Plate 12¾ × 2¾ inch.....per set $7.80
" 1117 × 187½— " Rabbeted Front Lock, Double Handles, Plate 12¾ × 2¾ inch..... " 8.90



No. 1117½, 2¾ × 12¾ inch.

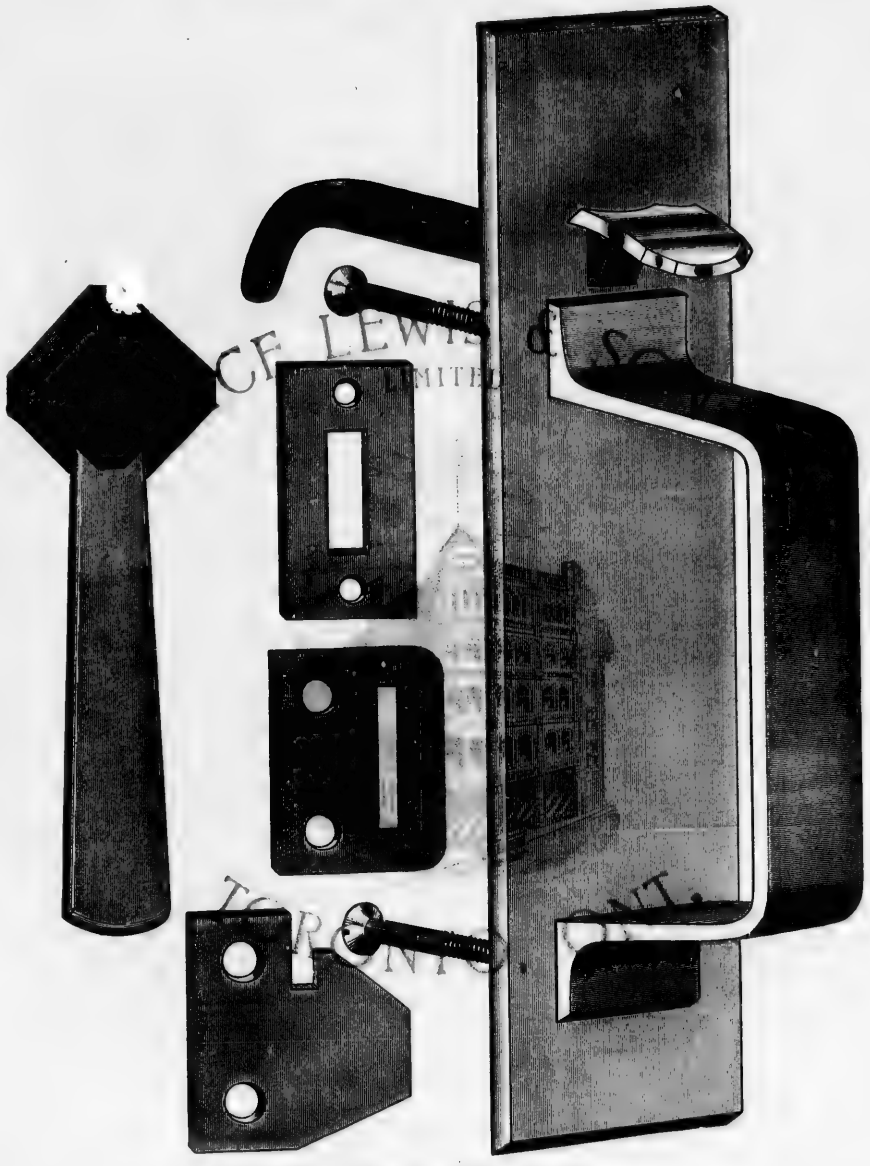


No. 188, Flat Front.
" 189, Rabbeted Front.
Size, 5 × 3½ inch.

No. 1117½ × 188—Bronze Metal, Flat Front Cylinder Lock, Double Handles, Plate 12¾ × 2¾ inch.....per set 12.20
" 1117½ × 189— " Rabbeted Front Cylinder Lock, Double Handles, Plate 12¾ × 2¾ inch.. " 16.20

In ordering state Hand required. One set in a box.

# STORE DOOR LATCHES



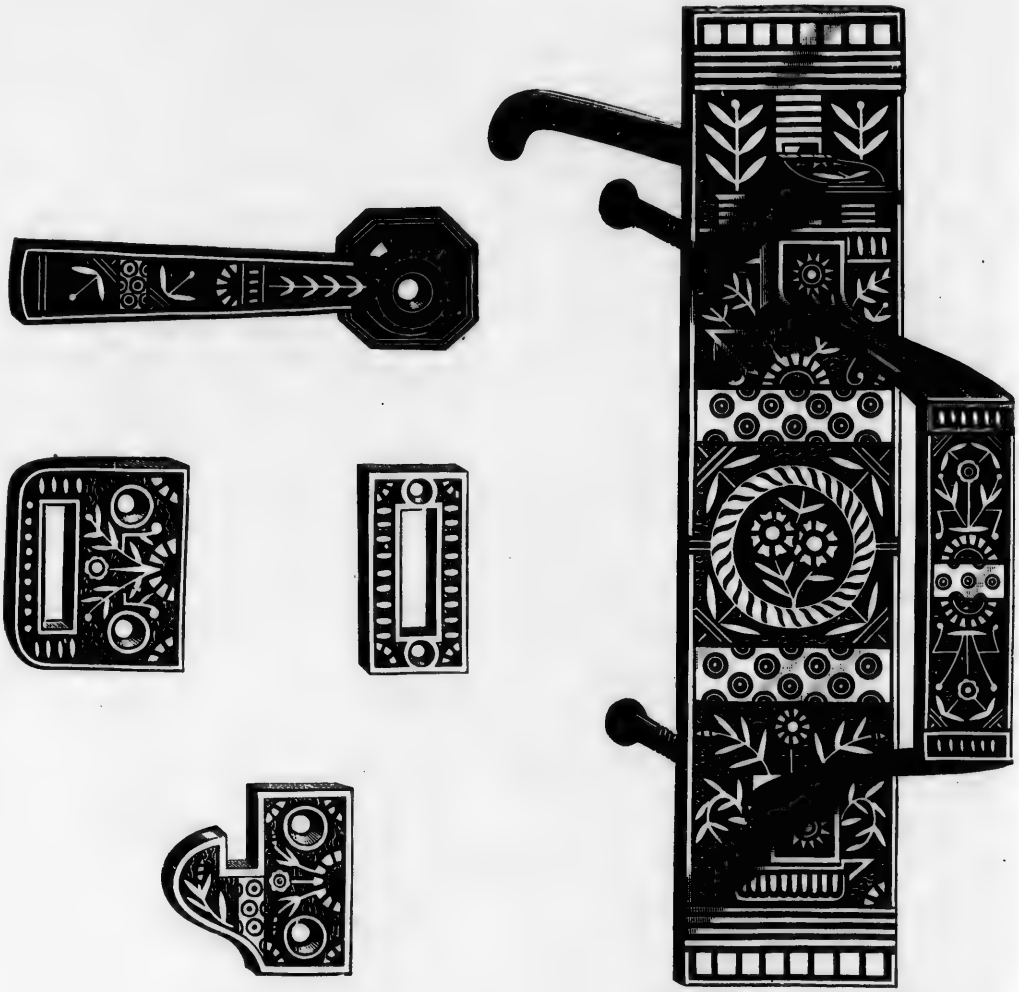
Three-quarter size cut.

| | | | |
|---|---|---|---|
| No. **626**—Bronze Metal, Polished, Oblique, Right or Left Hand | per set | $2.30 |
| " **628**—Same as above, only heavier | " | 4.00 |

Two sets in a box.

# STORE DOOR LATCHES

## OBLIQUE HANDLE



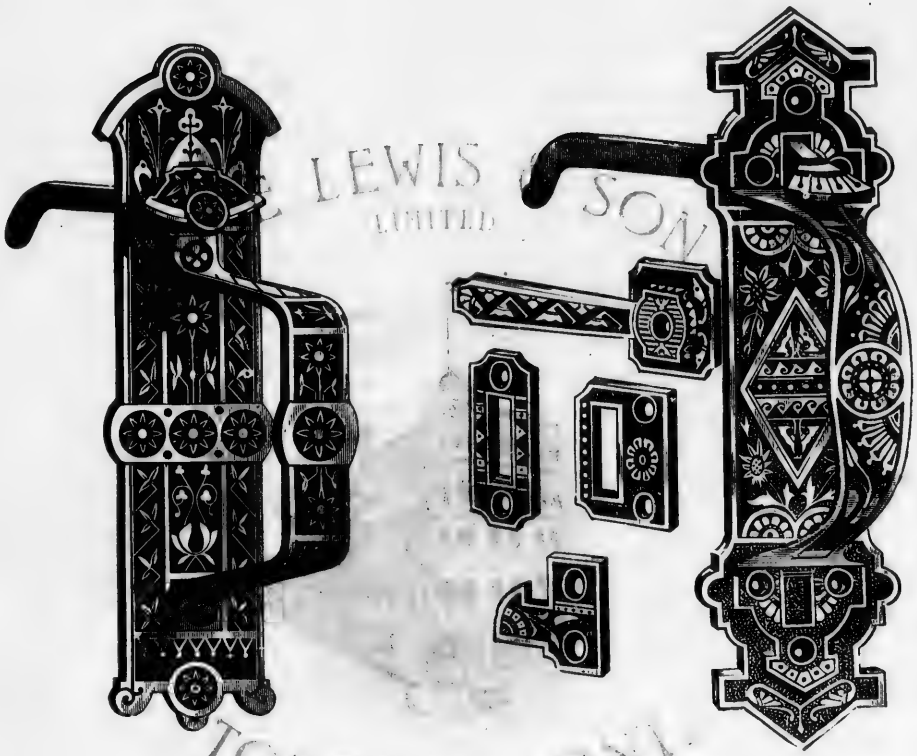
2 x 9½ inch. Two-third size cut.

## RIGHT OR LEFT HAND

No. **2629**—Bronze Metal (3 Finish), Oblique Handle, Right or Left Hand.....per doz. $24.00
" **4629**—Bronze-Plated (10 " ), " " " " " ..... " 10.00

Two sets in a box.

# STORE DOOR LATCHES



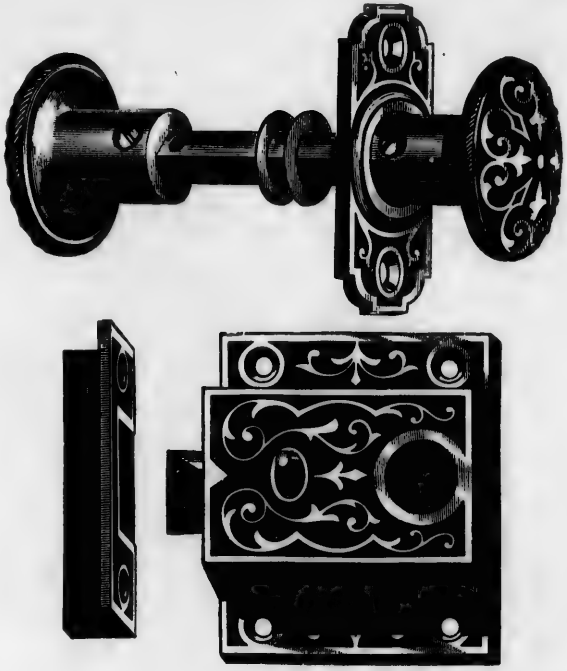
No. T37 No. 1887

Half size cuts.

No. T37—Amber Bronzed, Oblique Handle, Right or Left Hand ..... per doz. $4.90
" 1887— " " " " " ..... " 2.70

Half-dozen in a box.

# SCREEN DOOR CATCHES



No. T6440

No. T6440—Amber Bronzed Latch with Stop, Reverse Bevel, Patent Triangular Bolt, Packed with Knobs and Screws, per doz..... $3 20

## COTTAGE LATCHES

No. 87—Amber Bronzed.... .per doz. $1.60
" 62— " ..... " 1.70

No. 62 has Rounded Handle.

One dozen in a box, with Screws.



No. 87

# WROUGHT IRON THUMB LATCHES

Complete with Furniture.



Nos. 4 and 5

## EXTRA HEAVY

Oblique Handle, Polished.

| | | | |
|---|---|---|---|
| No. 4—Plate | 10 × 2½ inch | per doz. | $10.00 |
| " 5— " | 10½ × 2½ " | " | 12.00 |

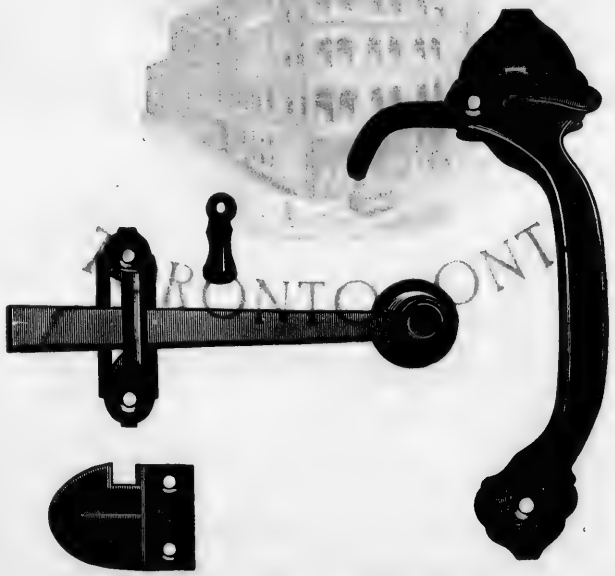
RICE LEWIS & SON LIMITED

## NORFOLK LATCHES

Straight Handle, Square Plate, Japanned.

| | | | |
|---|---|---|---|
| No. 6—Plate | 9½ × 2½ inch | per doz. | 8.00 |

## JAPANNED THUMB LATCHES



WROUGHT LATCH. No. 3. Half size cut.

| Nos | | 2 | 3 | 4 |
|---|---|---|---|---|
| Japanned Thumb Latches | per doz. | $0.70 | 0.80 | 0.90 |

One dozen in a box.

# STORE DOOR HANDLES

## JAPANNED



No. 16. Half size cut.

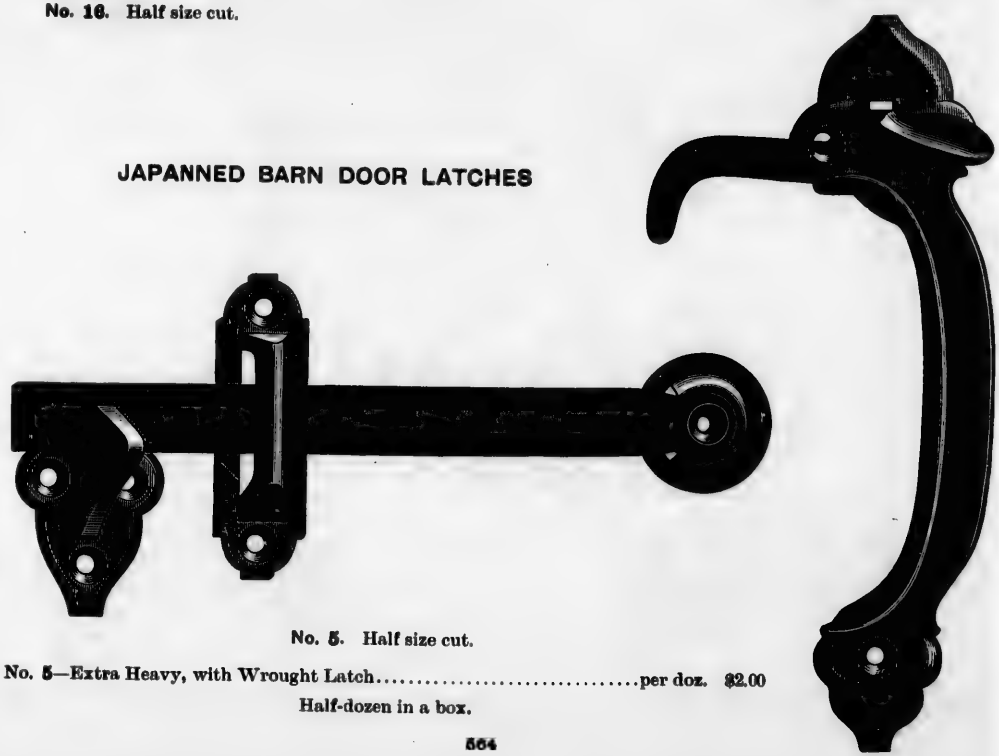
No. 16—With Plate.....per doz. $1.80
" 6—Without Plate..... ..... " 1.45

Half-dozen in a box; each set papered separately.



No. 6. Half size cut.

## JAPANNED BARN DOOR LATCHES



No. 5. Half size cut.

No. 5—Extra Heavy, with Wrought Latch.....per doz. $2.00

Half-dozen in a box.

# BARN AND STABLE DOOR LATCHES



Half size cut

RICE LEWIS & SON
LIMITED

No. **126**—Japanned Barn Door Latch with Hasp....per doz. **$2.80**

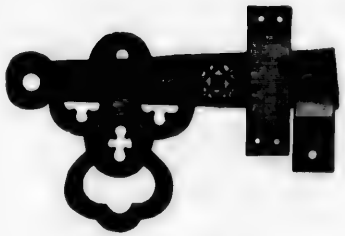


TORONTO, ONT.

**No. 195, WROUGHT LATCH**

No. **195**—Japanned Stable Door Latch.....per doz. **$3.40**

# BARN DOOR LATCHES



Nos. 1 and 2



No. 3

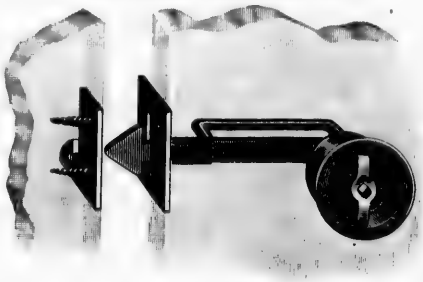
No. 1—Japanned Barn Door Latch, Length of Latch 9½ inches, Handle 4½ x 3½ inches ..... per doz. $7.80
" 2— " " " " " " 12½ " " " 5 x 4 " ..... " 9.60
" 3— " Wrought Barn Door Latch, Length of Latch 8½ inches, Handle 4 x 2 inches ..... " 0.75

## BARN DOOR CATCH



No. 24

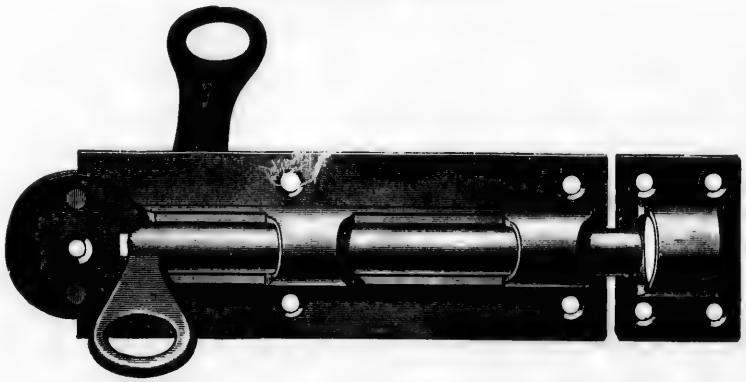
## SLIDING DOOR LATCH



No. 149

No. 24—Gravity Barn Door Catch ..... per doz. 1.00
" 149—Wilcox Sliding Door Latch, with Flush Handle on Partition Side; Adjustable for Doors of varying thickness ..... per doz. 8.20

## BARN DOOR BOLTS



No. 13. Half size cut. Can be used from inside or outside of door.

No 13—Japanned, with Heavy Bolt 8 inches long ..... per doz. 3.20

Half-dozen in a box.

# WROUGHT STEEL SQUARE BOLTS



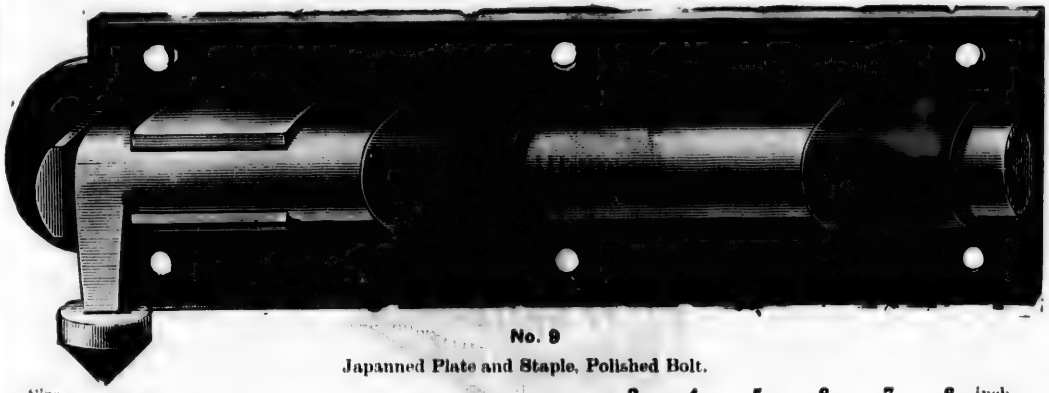
Extra Heavy.

| Size | | 6 x ⅝ | 8 x ¾ | 10 x ¾ | inch. |
|---|---|---|---|---|---|
| No. **10**—With Brass Knob | per doz. | $4.20 | 6.20 | 7.50 | |

## WROUGHT STEEL FLAT TAIL BOLTS

| Size | | 12 | 15 | 18 | 24 | inch. |
|---|---|---|---|---|---|---|
| No. **1048**—Plates 2½ inches wide, Bolts 1¼ x ½ inch | per doz. | $12.00 | 13.25 | 14.25 | 16.00 | |

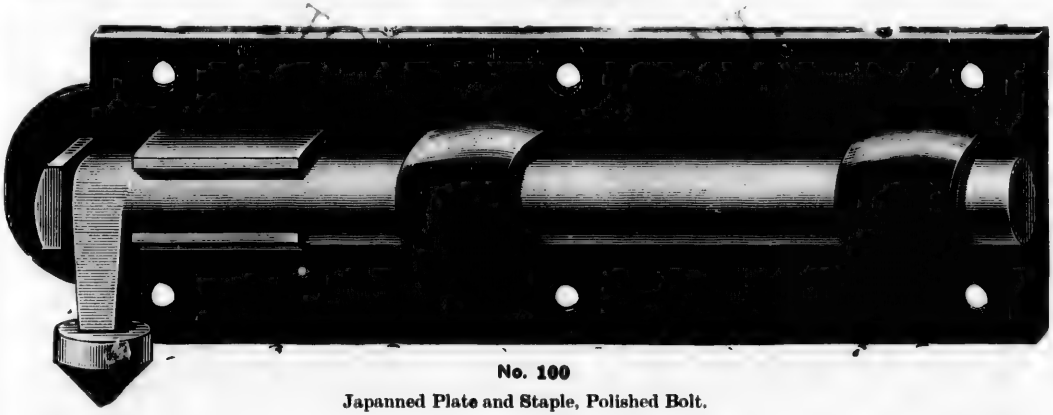
## WROUGHT IRON TOWER BOLTS



**No. 9**

Japanned Plate and Staple, Polished Bolt.

| Size | | 3 | 4 | 5 | 6 | 7 | 8 | inch. |
|---|---|---|---|---|---|---|---|---|
| No. **9** | per doz. | $0.70 | 1.00 | 1.20 | 1.40 | 1.70 | 2.00 | |

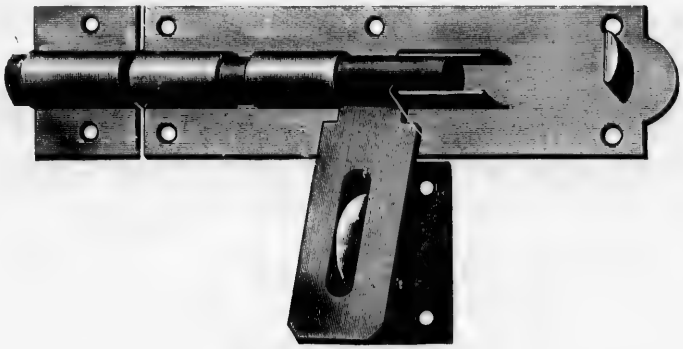


**No. 100**

Japanned Plate and Staple, Polished Bolt.

| Size | | 3 | 4 | 5 | 6 | 7 | 8 | 10 | inch. |
|---|---|---|---|---|---|---|---|---|---|
| No. **100** | per doz. | $1.00 | 1.30 | 1.70 | 2.00 | 2.50 | 2.70 | 3.30 | |

# GALVANIZED HASP BOLTS

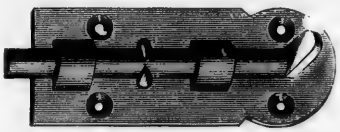


**No. 8, 6 inch. Half size cut.**

| Size | | 6 | 8 | 10 inch. |
|---|---|---|---|---|
| No. 8—Galvanized Hasp Bolts | per doz. | $5.00 | 6.00 | 7.50 |

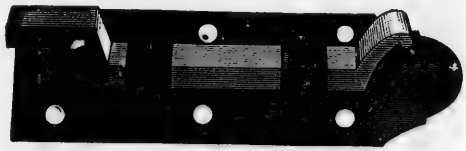
One dozen in a package.

## SPRING BOLTS



**No. 2906K**

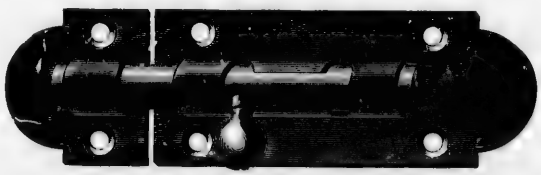
## NECK BOLTS



**No. 325**

| Size | | 2 | 2½ | 3 | 3½ | 4 inch. |
|---|---|---|---|---|---|---|
| No. 2900K—Iron, Polished | per doz. | .... | $0.35 | 0.40 | 0.45 | .... |
| " 2901K—Brass, " | " | .... | 0.90 | 1.20 | 1.70 | .... |
| " 2906K— " Half Round Bolt | " | .... | 1.20 | 1.60 | 2.00 | 2.40 |
| " 315 —Iron, Polished Square Bolt, Japanned Plate | " | 0.70 | 0.75 | 0.85 | 1.00 | .... |
| " 325 — " Neck Bolt, Polished, " " | " | .... | 0.75 | 0.85 | .... | .... |
| " 2902 — " " " | " | .... | 0.30 | 0.35 | 0.40 | .... |
| " 2903 —Brass, " " | " | .... | 1.00 | 1.40 | .... | .... |

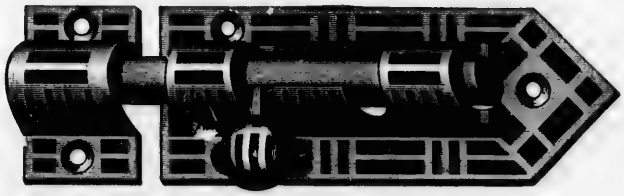
## BARREL BOLTS



**Nos. 1077 and 1078**

| Size | | 2½ | 3 | 4 | 5 | 6 inch. |
|---|---|---|---|---|---|---|
| No. 1078 —Steel, Polished Bolt, Japanned Plate, Brass Knob | per doz. | .... | $1.10 | 1.25 | 1.45 | .... |
| " 362 —Cast, Wrought Bolt, Polished Brass Knob | " | .... | 0.90 | 1.00 | .... | .... |
| " 1077 —All Brass, Polished | " | 3.50 | 4.30 | 4.90 | .... | .... |
| " 4016 —Brass Plate, with Steel Bolt and Brass Knob | " | 3.50 | 3.75 | 4.70 | 5.70 | 6.60 |
| " 1930B—Plain Bronze Metal, Heavy | " | .... | .... | 10.20 | .... | .... |
| " 2923 —Wrought Iron, Bronze-Plated | " | .... | .... | 1.80 | .... | .... |

# ORNAMENTAL BARREL BOLTS



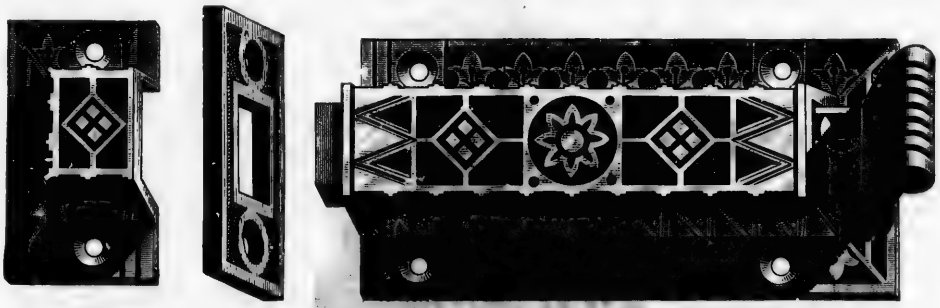
No. 1046

| Size | | | 2½ | 3 | 4 | 5 inch. |
|---|---|---|---|---|---|---|
| No. **1046**—Cast, Bronze-Plated (10 Finish), Wrought Bolt, Bronze Knob | per doz. | | $.... | 2.40 | 2.60 | .... |
| " **T461A**— " Amber Bronzed, Wrought Bolt, Bronze Knob | " | | 1.40 | 1.50 | 1.70 | .... |
| " **T472A**— " " " " " " | " | | .... | 1.60 | 1.90 | 2.20 |

One dozen in a box.

RICE LEWIS & SON LIMITED

## BOTTOM BOLTS



No. 1400A

No. T1400A

| Size | | 3 | 4 | 6 inch. |
|---|---|---|---|---|
| No. **T1400A**—Amber Bronzed | per doz. | $1.90 | 2.40 | 3.30 |
| " **1400A**— " | " | 2.10 | 2.40 | 3.30 |

One dozen in a box.

TORONTO, ONT.

## SPRING FOOT BOLTS

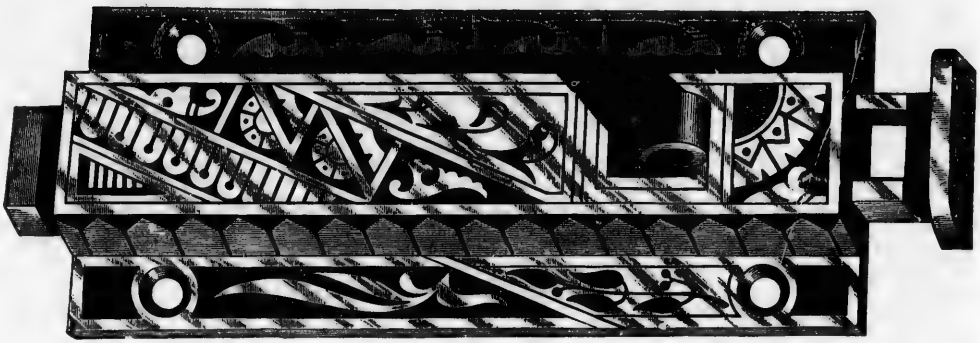


No. 391

| Size | | 6 | 8 inch. |
|---|---|---|---|
| No. **391**—Japanned, Polished Bolt | per doz. | $3.00 | 3.60 |

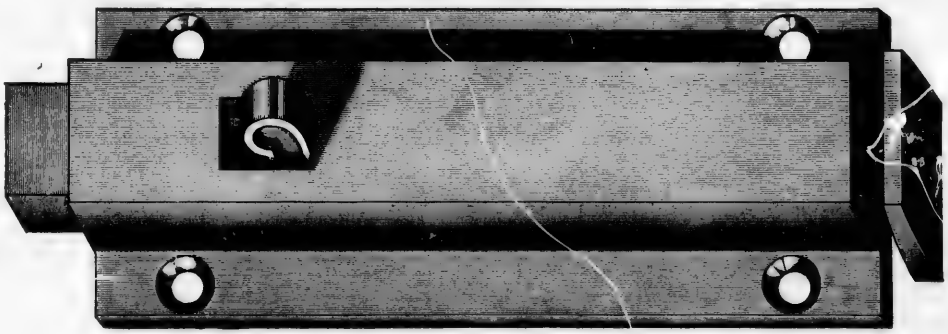
Half-dozen in a box.

# SPRING FOOT BOLTS



No. 3250

| Size | | 6 | 8 inch. |
|---|---|---|---|
| No. 3250 —Iron, Amber Bronzed | per doz. | $5.60 | .... |
| " P3250 — " Persian Bronzed (14 Finish) | " | 6.00 | .... |
| " 2948 —Bronze Metal (3 Finish) | " | 12.00 | .... |
| " T1491A—Iron, Amber Bronzed | " | 4.00 | 4.60 |



No. 4250½

| Size | | 6 inch. |
|---|---|---|
| No. 4250½—Bronze Metal, Polished (Corbin's) | per doz. | $19.50 |
| " 948 — " " (Peterboro') | " | 13.00 |

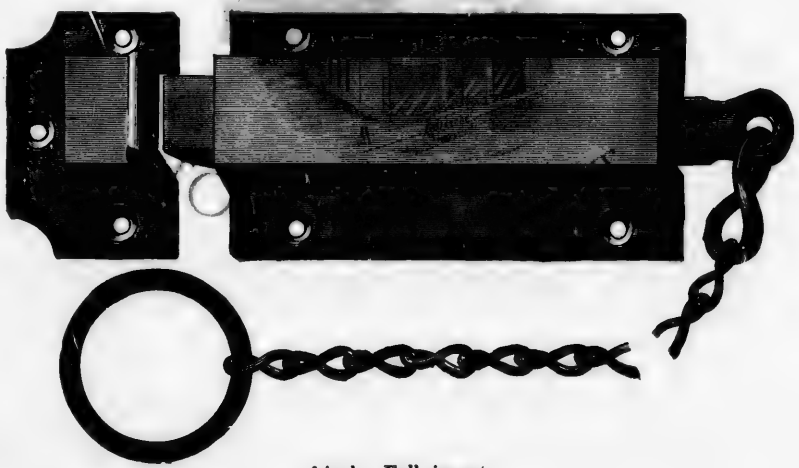
Half-dozen in a box.

# CHAIN BOLTS



4 inch. Full size cut.

| Size. | 3 | 4 | 6 | 8 | 10 inch. |
|---|---|---|---|---|---|
| No. T1481A—Amber Bronzed ..... per doz. | $2.40 | 2.80 | 4.00 | 4.80 | .... |
| " T1484A— " " (Reverse Bevel) ..... " | .... | 3.40 | 4.40 | .... | .... |
| " P3252—Persian " (14 Finish) ..... " | .... | .... | 6.00 | .... | .... |
| " 2936—Bronze Metal, (3 Finish) ..... " | .... | .... | 12.00 | .... | .... |
| " 383—Japanned, Polished Bolt, (to match No. 391, page 500) " | .... | 2.70 | 3.20 | 4.00 | 5.60 |
| " 384— " " " (Reverse Bevel) ..... " | .... | 3.00 | 3.60 | 4.50 | 6.10 |

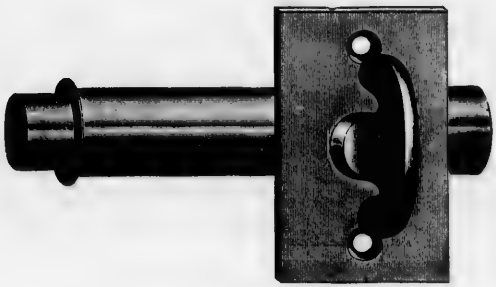


4 inch. Full size cut.

| Size. | 4 | 6 inch. |
|---|---|---|
| No. 934 —Bronze Metal (Peterboro') ..... per doz. | $9.00 | ..... |
| " 936 — " " " ..... " | .... | 13.00 |
| " 4252½— " " (Corbin's) ..... " | .... | 17.50 |

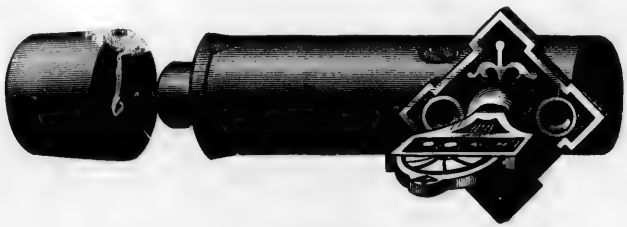
Half-dozen in a box.

# MORTISE DOOR BOLTS



**No. 0654½**

No. **0654½**—Bronze Metal with Face Plate and Thumb Knob.....per doz. $4.90



Full size cut.

| | | | |
|---|---|---|---|
| No. **294A**—Amber Bronzed, Turn Knob and Rose | per doz. | 2.50 |
| " **298A**—Bronze Metal " " | " | 3.40 |

One dozen in a box.

## BRASS FLUSH BOLTS

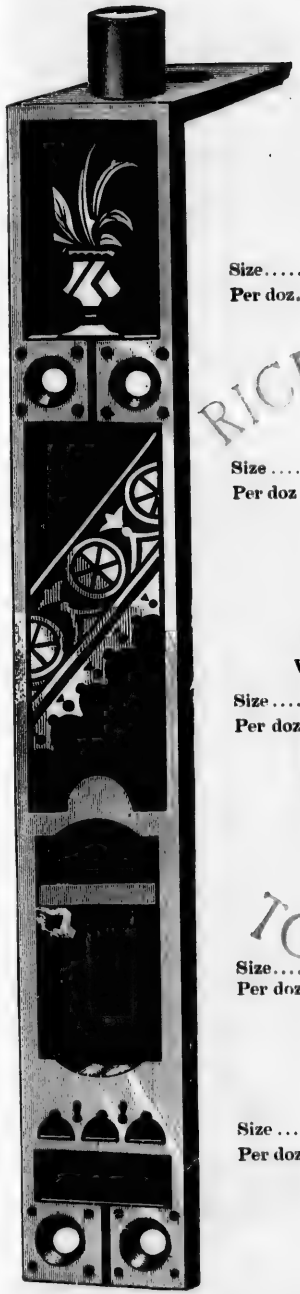


**No. 98. 4 inch.**

| | | | |
|---|---|---|---|
| No. **82**—2 x ⅜ inch, Wrought Brass, Polished | per doz. | 0.95 |
| " **98**—2½ x ½ " " " " | " | 1.15 |
| " **98**—3 x ½ " " " " | " | 1.30 |
| " **104**—4 x ⅝ " " " " | " | 2.70 |
| " **104**—6 x ⅝ " " " " | " | 3.75 |

One dozen in a box.

# FLUSH BOLTS



No. 702, 8 inch.
Full size cut.

## ORNAMENTAL

**No. T88A**

**AMBER BRONZED**

| Size..... | 6 | 8 | 10 | 12 | 18 | 24 inch. |
|---|---|---|---|---|---|---|
| Per doz... | $2.00 | 2.40 | 2.60 | 2.90 | 4.20 | 5.30 |

**No. 702**

**BRONZE-PLATED**

(10 Finish.)

| Size..... | 6 | 8 | 12 inch. |
|---|---|---|---|
| Per doz..... | $3.20 | 3.80 | 4.80 |

**No. 705**

**BRONZE-PLATED**

(10 Finish.)

With Bronze Metal Knob and Plate.

| Size..... | 6 | 8 | 12 inch. |
|---|---|---|---|
| Per doz..... | $4.70 | 5.50 | 6.50 |

## PLAIN

**No. 708**

**IRON, BRONZE-PLATED**

| Size..... | 6 | 8 | 12 inch. |
|---|---|---|---|
| Per doz..... | $4.50 | 5.00 | 6.00 |

**No. 707**

**BRONZE METAL**

| Size..... | 6 | 8 | 12 inch. |
|---|---|---|---|
| Per doz..... | $8.00 | 9.50 | 12.50 |

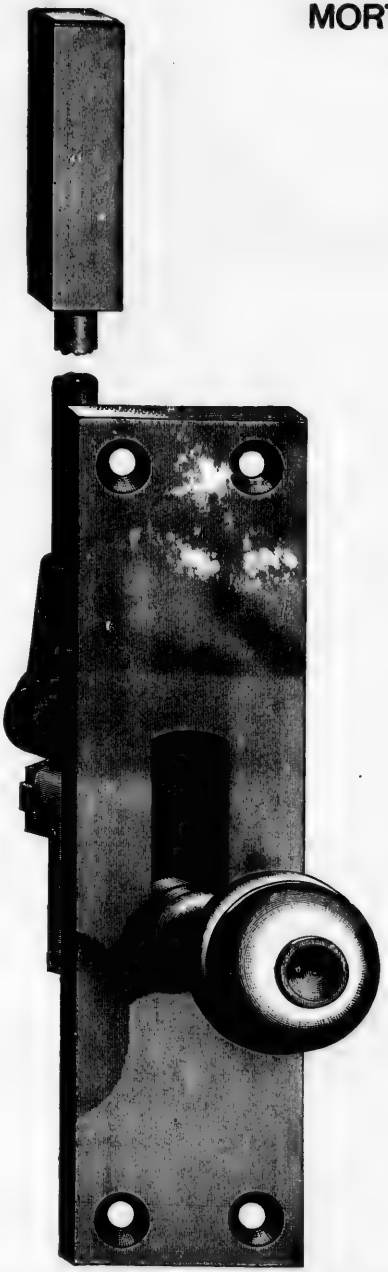
Half-dozen in a box.



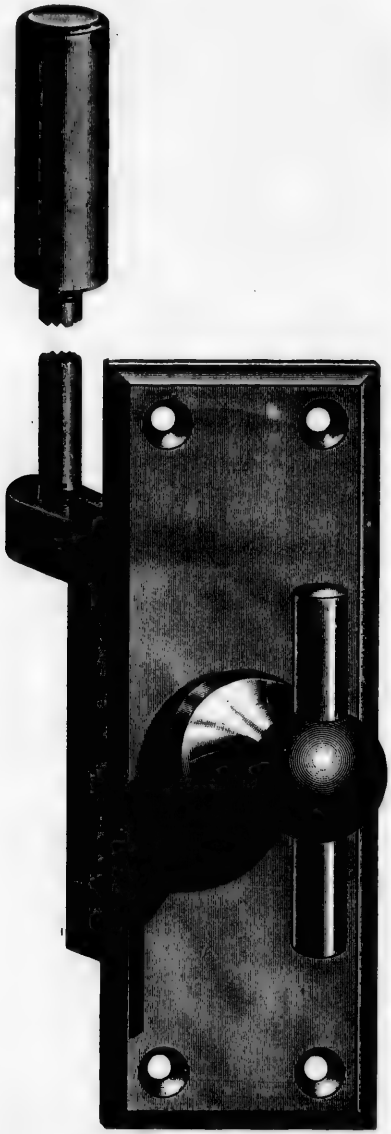
Nos. 707 and 708. 8 inch.
Full size cut.

RICE LEWIS & SON LIMITED TORONTO, ONT.

# MORTISE FLUSH BOLTS



No. 2852

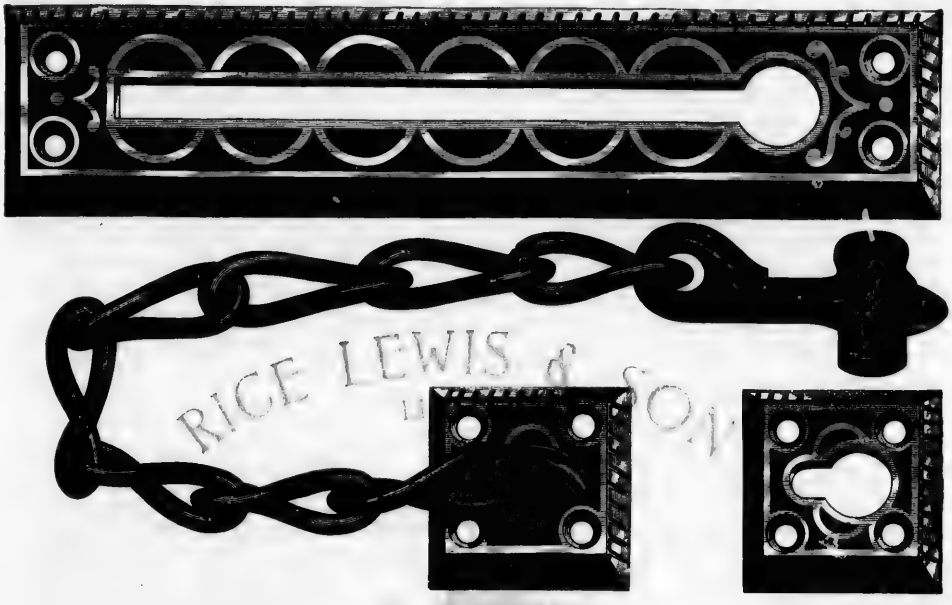


No. 02858

No. **2852**—Bronze Metal, with Knob, from 8 to 30 inches.....each $1.55
" **02858**— " " " T Handle from 12 to 30 inches..... " 4.50

One-sixth dozen in a box.

# CHAIN DOOR FASTENINGS



No. P3264

| | | | |
|---|---|---|---|
| No. | 36—6 inch, Japanned, Steel Chain | per doz. | $3.50 |
| " | 16—6 " Amber Bronzed, Bronzed Chain | " | 4.00 |
| " | P3264—6 " Persian Bronzed (14 Finish), Bronzed Chain | " | 6.50 |
| " | 2637—4½ x 1½ inch, Ornamental Cast Brass Plate, 3⅛ inch Brass Chain | " | 9.75 |
| " | 2642—3⅜ x 1½ " Plain " " 3¼ " " | " | 7.50 |



No. 0472

| | | | |
|---|---|---|---|
| No. | 0472—6 inch, Plain Bronze Metal | per doz. | 20.00 |
| " | 2650—5 x 1 inch Wrought Brass, 4 inch Wrought Brass Chain | " | 5.25 |

# DOOR HOLDERS AND STOPS

**The Best Device known for Holding either Double or Single Acting Doors in Vestibules, Churches, School Rooms, etc.**



**No. 135**



**No. 137**

| | | | |
|---|---|---|---|
| No. **135** —Door Holder, Brass Catch and Japanned Iron Wall Attachment | per doz. | $ 7.20 |
| " **135B**— " " " Bronze Metal " " | " | 12.00 |
| " **137** — " " " Japanned Iron Floor " | " | 7.20 |
| " **137B**— " " " Bronze Metal " " | " | 12.00 |

## WOOD DOOR STOPS



**BASE KNOB**



**FLOOR STOP**

### BASE KNOBS

| Size | | $2\frac{1}{4}$ | $3\frac{1}{2}$ inch. |
|---|---|---|---|
| No. **130**—Cherry, Oak or Walnut, Hand Turned and Polished | per doz. | $1.75 | .... |
| " **130**—Mahogany, Hand Turned and Polished | " | 2.00 | .... |
| " **131**—Cherry, Oak or Walnut, Hand Turned and Polished | " | .... | 2.15 |
| " **131**—Mahogany, Hand Turned and Polished | " | .... | 2.50 |
| " **100**—Ash, Finely Finished | per gross | 4.00 | .... |
| " **101**—Beech " | " | 4.00 | ... |
| " **102**—Maple " | " | 4.00 | .... |
| " **103**—Oak " | " | 4.50 | .... |
| " **104**—Walnut " | " | 4.70 | .... |
| " **106**—Cherry Stained, Finely Finished | " | 4.70 | .... |
| " **110**—Ash, Common Polish | " | 3.50 | .... |
| " **111**—Maple " | " | 3.50 | .... |

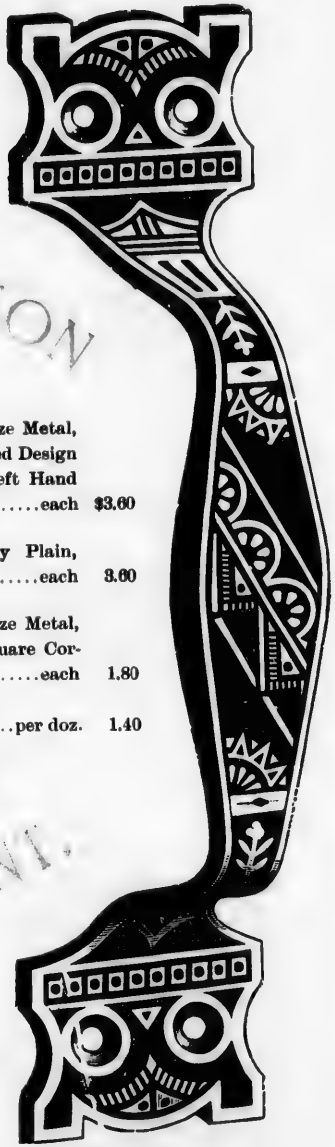
### FLOOR STOPS

No. **134**—Oak, Walnut, or Cherry, Hand Turned and Polished ..... per doz. $2.40

# DOOR PULLS



No. 2396



No. 3732. Full size cut.

No. **2396** —11½ x 2⅞ inch, Bronze Metal, Ornamental, Fluted Design for Right and Left Hand Doors.....each $3.60

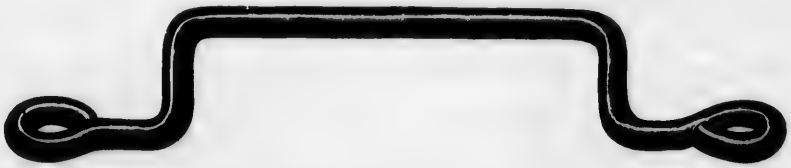
No. **2396½**—Same as 2396, only Plain, Fluted Design .....each 3.60

No. **2209** —9 x 2½ inch, Bronze Metal, Plain Design, Square Corners.....each 1.80

No. **3732** —Amber Bronzed.....per doz. 1.40

LEWIS & SON LIMITED TORONTO, ONT.

# DOOR PULLS



No. **100**—Japanned Wire Door Pulls for Screen Doors ..... per gross $2.00
" **200**—Brass-Plated " " " " " ..... " 2.20



**No. 601**

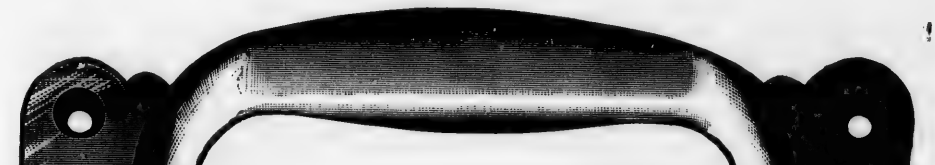
No. **601**—Wrought Brass, Polished ..... per doz. 1.00



**No. 13654**

Cast Brass, Polished and Lacquered.

| Size | 5 | 5½ | 6 inch. |
|---|---|---|---|
| No. **13654** ..... per doz. | $1.60 | 1.90 | 2.10 |



**Nos. 02207 and 1736**

No. **02207**—Iron, Japanned ..... per doz. 1 20
" **1736**—Bronze Metal, Highly Polished ..... " 6.50

# DOOR PULLS



No. **1692½**—3½ inch, Bronze Metal, Polished ..... per doz. $2.70
" **1694½**—4½ " " " " ..... " 3.60
" **1696½**—6 " " " " ..... " 6.30

RICE LEWIS & SON



No. **730**

No. **730**—Bronze Metal, Polished ..... per doz. $5.00



Nos. **2208** and **3208**

No. **2208**—Bronze Metal, Ornamental ..... per doz. 5.70
" **3208**—Iron, Amber Bronzed ..... " 0.70

# FINGER AND PUSH PLATES



No. 2325½




No. 9354. Full size cut.




No. 9354½. Full size cut.

| | | |
|---|---|---|
| No. **9354** —Bronze Metal..... | per doz. | $16.00 |
| " **9354½**— " " ..... ..... | " | 16.00 |
| " **3971** —Amber Bronzed, 7¼ x 2⅛ inch..... | " | 3.00 |

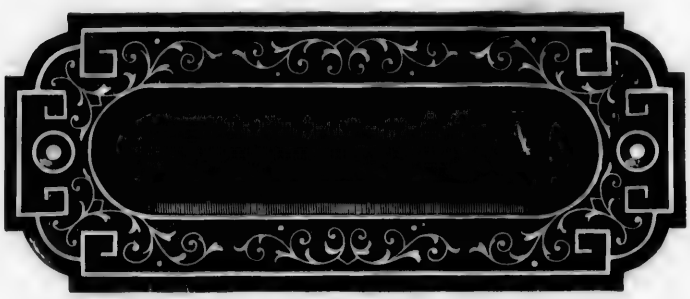
No. **2325½**—Plain Bronze Metal (Beveled)

| Size..... | 10 x 3½ | 12 x 3 | 15 x 3½ inch. |
|---|---|---|---|
| Per doz..... | $12.60 | 13.50 | 26.00 |

## PORCELAIN FINGER PLATES

| Size..... | | | 7¾ x 3⅛ | 11¼ x 2 | 11¼ x 2½ inch. |
|---|---|---|---|---|---|
| No. **330**—Plain..... | per single doz. | | $2.50 | 2.50 | 2.50 |
| " **345**— " ..... | " | " | .... | .... | 2.50 |
| " **117**—With Gilt Stripe..... | " | " | .... | .... | 5.50 |

# LETTER BOX PLATES



No. 25

No. 25—2⅜ x 5½ inch, Amber-Bronzed, with Face Screws.....per doz. $2.60
" 46—2⅜ x 7⅛ " " " Back " ..... " 5.00

RICE LEWIS & SON LIMITED




No. P3426½

No. P3426½—2 x 6½ inch, Persian-Bronzed (14 Finish), with Back Screws.....per doz. 5.30

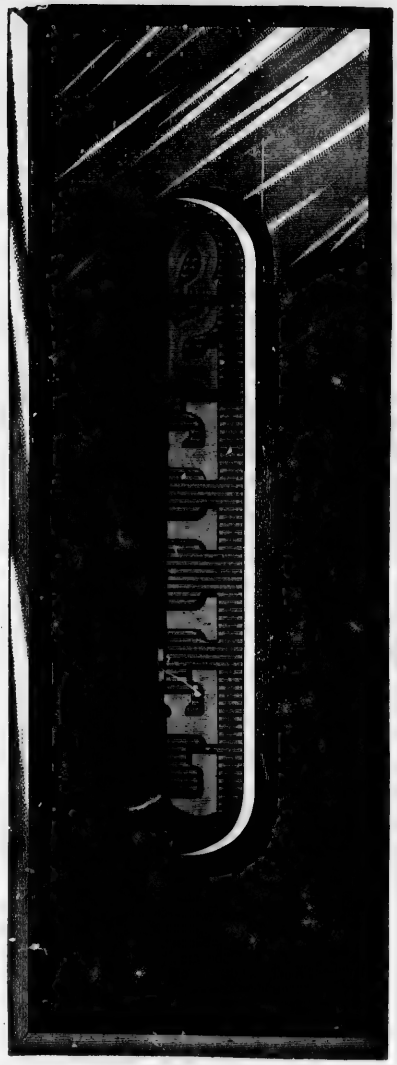



No. 2339½

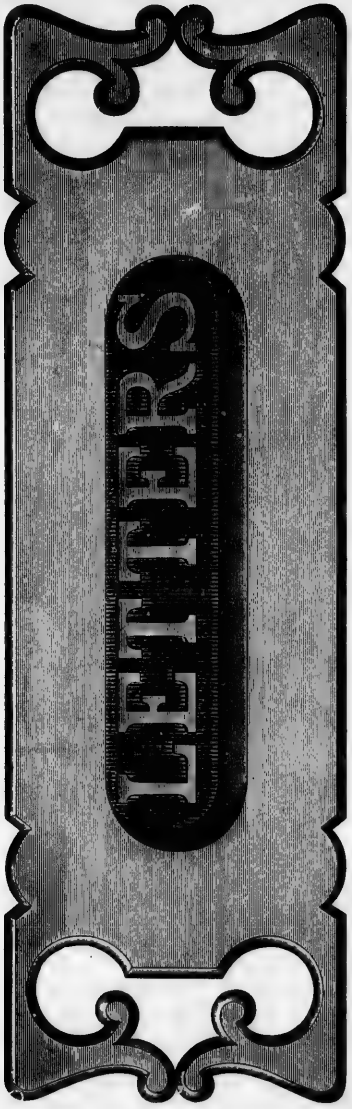
No. 2339½—2½ x 5½ inch, Bronze Metal, with Face Screws.....per doz. 15.80

Half-dozen in a box.

# LETTER BOX PLATES




No. 2306½




No. 02806½

| | | | |
|---|---|---|---|
| No. 2306½—2½ × 6¾ inch, Bronze Metal with Back Screws | per doz. | $14.40 |
| " 02806½—2½ × 8¼ " " " Plate and Screws | " | 28.00 |
| " 02906½—3½ × 8 " as No. 2306½, Bronze Metal with Back Plate and Face Screws | " | 36.00 |

No. 02906½ suitable for newspapers.

Half-dozen in a box.

# HOUSE NUMBERS



### ORNAMENTAL

| | | |
|---|---|---|
| 4 inch, Bronze Metal | per 100 | $30.00 |

### PLAIN

| | | |
|---|---|---|
| 1½ inch, Cast, Brass, Nickel-Plated | per 100 | 10.00 |
| 2 " " " " | " | 12.00 |

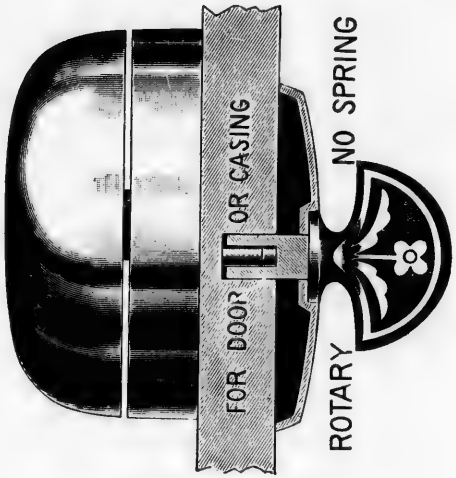
## ROTARY DOOR BELLS



No. **1870**—3½ inch Rotary Door Bells, Steel, Nickel-Plated, with Bronze Metal Turn Plate ..... per doz. 8.00

# ROTARY DOOR BELLS AND PLATES

**NEW DEPARTURE**



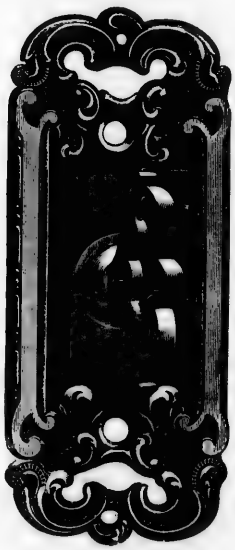

**NICKEL-PLATED BELL**



**No. 023, BELL**




**"A" PLATE**



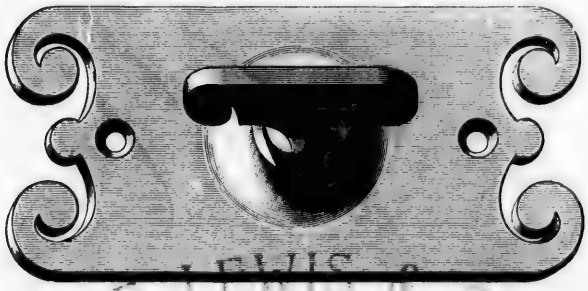
**"S H" PLATE**

**Turn Plates, Cast Bronze Metal, complete with Screws.**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| No. **191**— | "A" Plate, complete, with | | 3 | inch | Nickel-Plated | Bell | ..... | per doz. | $15.50 |
| " **100**— | " | " | " | 3½ | " | " | " | ..... | " | 18.00 |
| " **991**— | "S H" Plate | " | " | 3 | " | " | " | ..... | " | 15.50 |
| " **901**— | " | " | " | 3½ | " | " | " | ..... | " | 18.00 |

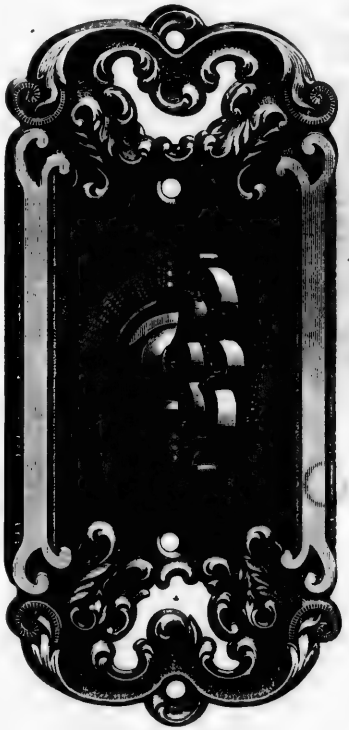
# ROTARY DOOR BELLS AND PLATES

**Cast Bronze Metal Plates, complete with Screws.**



"I" PLATE

No. **1091**—"I" Plate, complete with 3 inch Nickel-Plated Bell.....per doz. $15.50
" **1001**—"I" " " 3½ " " " " ..... ..... " 18.00



"H" PLATE



"K" PLATE

No. **891**—"H" Plate, complete with 3 inch Nickel-Plated Bell.....per doz. 15.50
" **801**—"H" " " 3 " " " ..... " 18.00
" **023**—"K" " " 3 " Ornamental Cast Iron Bell No. 023..... " 12.50

No. 023K, Old Copper, Light Finish; others, Natural Bronze, Light Color.

# LEVER DOOR BELLS



Nos. 719 and 720

## ORNAMENTAL

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. **719**—4 inch, Lever Door Bells, | | | | Amber Bronzed | per doz. | $6.00 |
| " **720**—4 " | " | " | Bronze-Plated (10 Finish) | " | 8 50 |
| " **723**—4 " | " | " | Bell Metal (3 Finish) | " | 11.00 |
| " **724**—5 " | " | " | Amber Bronzed | " | 8.00 |
| " **725**—5 " | " | " | Bronze-Plated (10 Finish) | " | 10.50 |
| " **728**—5 " | " | " | Bell Metal (3 Finish) | " | 13.00 |

## PLAIN

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. **21**—4 inch, Lever Door Bells, | | | | Bell Metal | per doz. | 11.00 |
| " **22**—4 " | " | " | " | " | Nickel-Plated | " | 12.00 |
| " **26**—5 " | " | " | " | " | " | " | 13 00 |
| " **27**—5 " | " | " | " | " | Nickel-Plated | " | 14.00 |

# BELL LEVERS

**Full size cuts.**



**Nos. 410 and 411**



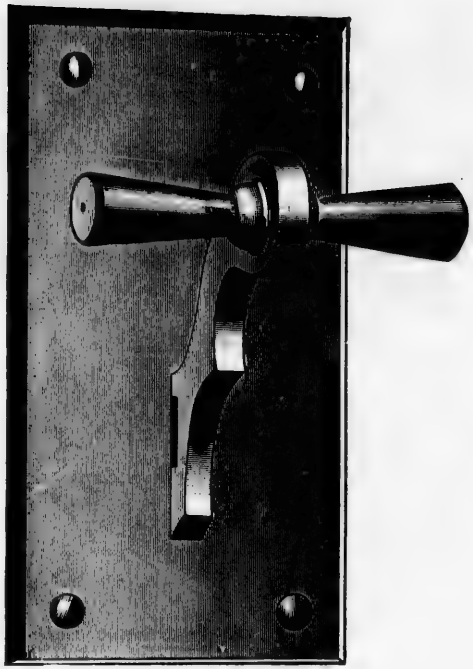
**Nos. 2325 to 4325**

| | | | |
|---|---|---|---|
| No. | **410**—Amber Bronzed | per doz. | $2.00 |
| " | **411**—Bronze-Plated (10 Finish) | " | 3.00 |
| " | **2325**—Bronze Metal | " | 7.00 |
| " | **3325**—Amber Bronzed | " | 3.50 |
| " | **4325**—Bronze-Plated (10 Finish) | " | 5.00 |

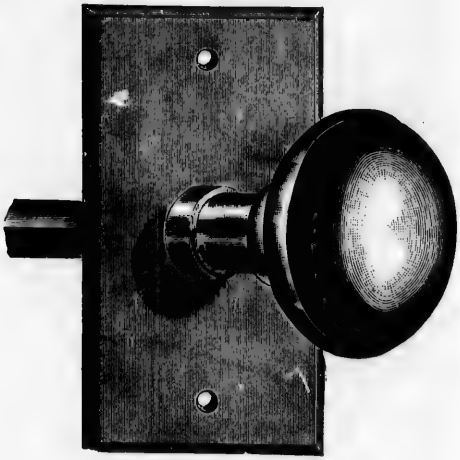
**Half-dozen in a box.**

# BELL LEVERS AND PULLS

Full size cuts.

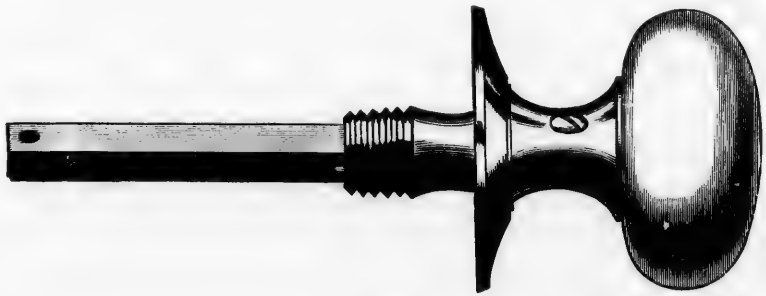


No. 428



No. 1548

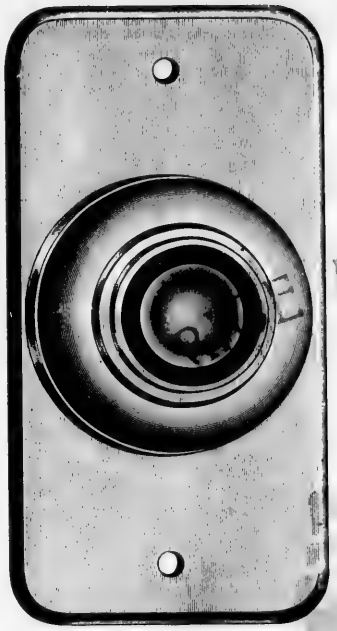
No. 428—Plain, Bronze Metal, Polished ..... per doz. $10.00
" 1548— " " " " ..... " 6.00



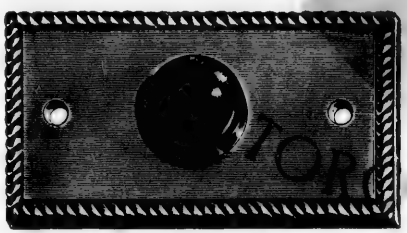
No. 07

No. 07—Porcelain Knob, Plated Mountings ..... per doz. 5.00

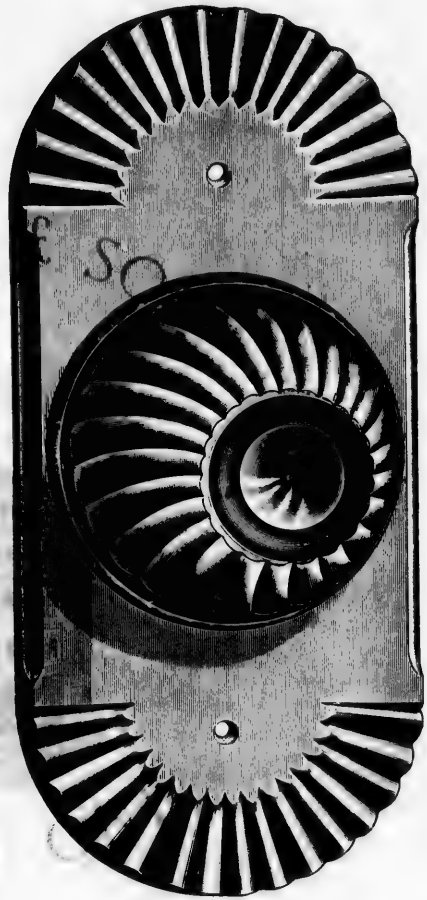
# ELECTRIC PUSH BUTTONS



No. 1190



No. 546½

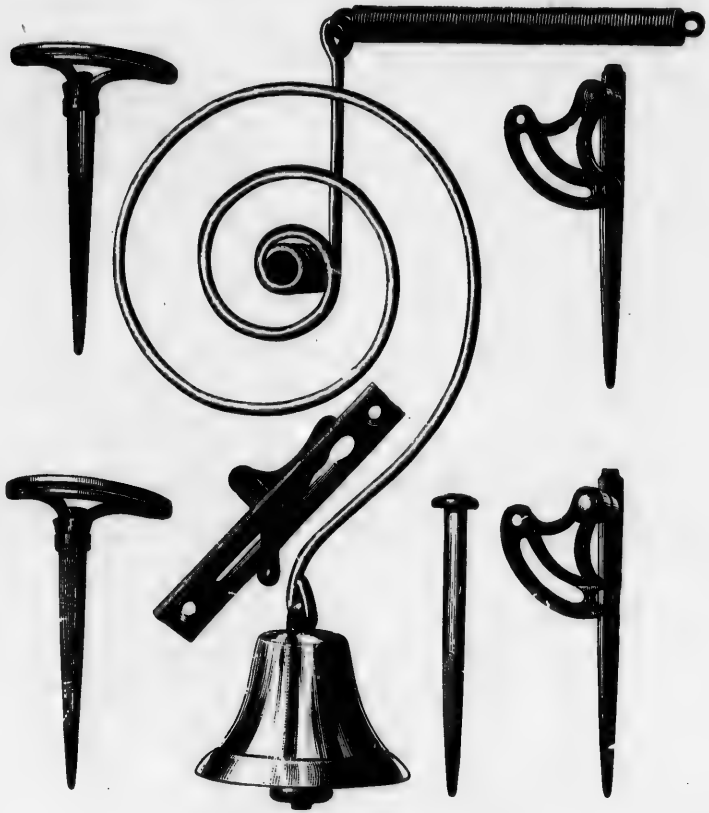


No. 1189½

| | | | | |
|---|---|---|---|---|
| No. **1190** —Bronze Metal, full size cuts | | | per doz. | $ 9.00 |
| " **1189½**— | " | " " | " | 43.20 |
| " **546½**— | " | " " | " | 10.80 |
| " **1188½**— | " | 2½ inch, Round (same Top as No. 1190) | " | 4.90 |

**Designs to match Front Door Sets, to order.**

# HOUSE BELLS ON CARRIAGES

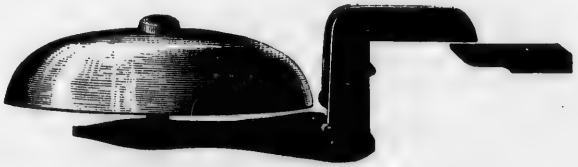


**No. 123**, complete. Half size cut.

No. **123**—With No. 3 Polished Bells, complete with Trimmings, as per cut ..... per doz. $9.50

Half-dozen in a package.

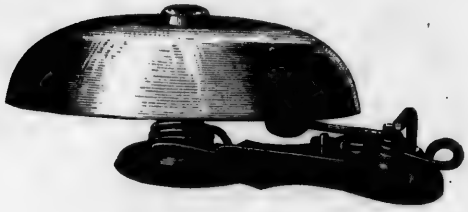
## ALARM DOOR GONGS



**No. 125**

No. **125**—4 inch, Bronzed Steel Bells, with Alarm Attachment ..... per doz. 5.00

# HOUSE GONG BELLS



Half size cut of **5** inch.

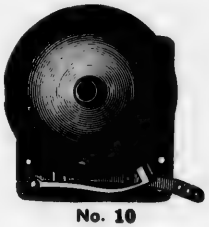
**No. 120, BRONZED STEEL**

| Size | | | | | | inch. |
|---|---|---|---|---|---|---|
| No. **120** | per doz. | $4.00 | 5.00 | 7.00 | 10.00 | |

One-twelfth dozen in a box.

RICE LEWIS & SON LIMITED TORONTO, ONT.

## ENGINEERS' GONG BELLS



No. **10**

**No. 10**

With Brass Gong, Iron Frame.

| Diameter | | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 15 | 16 | 18 in. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Finished | each | $2.25 | 2.75 | 3.25 | 3.90 | 6.75 | 9.00 | 15.00 | 23.00 | 27.00 | 30.00 | 38.00 |
| Nickel-Plated | " | 2.40 | 2.90 | 3.45 | 4.15 | 7.25 | 9.60 | 16.00 | 24.25 | 28.25 | 32.00 | 40.00 |

**No. 11**

With Rolled Steel Gong, Iron Frame, same style as No. **10**.

| Diameter | | 5 | 6 | 7 | 8 | 9 | 10 | 12 | 14 | 16 inch. |
|---|---|---|---|---|---|---|---|---|---|---|
| No. **11**—Nickel Finish | each | $1.25 | 1.90 | 2.50 | 3.75 | 5.00 | 6.25 | 10.00 | 15.00 | 20.00 |



No. **15**

## ROLLED STEEL GONGS

**No. 15**

With Foot Strike for Street Cars and Fire Reels, etc.

| | | |
|---|---|---|
| **13** inch Gong, Nickel Finish | each | 20.00 |
| **14** " " " " | " | 22.50 |

TORONTO, ONT.

## SLIDE BELL PULLS



**No. 219.** Full size cut.

| | | |
|---|---|---|
| No. **219**—6½ inch Long, ⅝ inch Wide, Wrought Brass | per doz. | 5.90 |
| " **50**—9¼ " " 1¼ " " Cast Brass, Heavy | " | 10.00 |

# STEEL ALLOY CHURCH AND SCHOOL BELLS



| Nos | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 40 | 44 | 48 | 54 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Weight of Bell only | 110 | 122 | 153 | 220 | 294 | 336 | 388 | 487 | 605 | 750 | 1060 | 1380 | 2050 | lbs. |
| Weight of Bell and Mountings | 160 | 175 | 225 | 325 | 450 | 550 | 600 | 750 | 875 | 1200 | 1600 | 2050 | 3000 | " |
| Price complete | $16.00 | 20.00 | 25.00 | 40.00 | 50.00 | 65.00 | 75.00 | 90.00 | 110.00 | 150.00 | 200.00 | 250.00 | 375.00 | |

Bells are numbered by the diameter in inches. The weights and prices above are for complete Bells and include Wood Sills, Wheel for Rope, and for numbers 30 to 54, Tolling Hammers without extra charge; Tolling Hammers for numbers 24, 26, 28, when so ordered, $5.00 each extra, but are not recommended.




## FACTORY AND FARM BELLS

Complete with Hangings.

| | Diameter. | Approximate Weight. | Price. |
|---|---|---|---|
| No. 1 | 15 inches. | 40 lbs. | $2.40 |
| " 2 | 17 " | 60 " | 3.60 |
| " 3 | 19 " | 75 " | 4.50 |
| " 4 | 21 " | 100 " | 6.00 |

## MENEELY'S WARRANTED PURE BELL-METAL BELLS

For Churches, School-Houses, Factories, Fire-Halls, Steamboats, etc.

Prices on application.

# SHEEP AND COW BELLS



No. 1. Full size cut.

RICE LEWIS & SON LIMITED

| | | |
|---|---|---|
| No. 1—Cast Sheep Bells | per doz. | $3.00 |
| " 2— " " | " | 3.80 |

## COW BELLS




### HOLSTEIN COW BELLS

| Size Nos. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | |
|---|---|---|---|---|---|---|---|---|---|
| Height without Loop | 7 | 6¼ | 5½ | 5 | 4½ | 3¾ | 2⅞ | 2⅜ | inch. |
| Length of Mouth | 6 | 5½ | 5 | 4½ | 3½ | 3¼ | 2⅝ | 2⅜ | " |
| Width " | 3¾ | 3½ | 3¼ | 2⅞ | 2½ | 2⅜ | 2¼ | 1⅞ | " |
| Per dozen | $12.00 | 10.00 | 8.00 | 6.00 | 5.00 | 4.00 | 3.00 | 2.50 | |

### WESTERN COW BELLS

| Size Nos. | 2 | 3 | 4 | 5 | 6 | 9 | inch. |
|---|---|---|---|---|---|---|---|
| Height without Loop | 6 | 5⅝ | 5¼ | 5¼ | 4¾ | 2½ | " |
| Per dozen | $10.00 | 9.00 | 8.00 | 6.50 | 5.50 | 2.50 | |

## COW BELL STRAPS

| | | |
|---|---|---|
| No. 1—Black Leather, $1\frac{1}{16} \times 48$ inches | per doz. | $4.15 |

# GLOBE HAND BELLS

**CONE'S PATENT**



**SILVER WHITE FINISH**

| Nos | 40 | 50 | 55 | 60 | |
|---|---|---|---|---|---|
| Size | 4 | 5 | 5½ | 6 | inch. |
| Per dozen | $22.25 | 26.65 | 37.50 | 50.00 | |

One-sixth dozen in a box.



No. 6. Half size cut

## HAND BELLS

**PURE BELL-METAL, POLISHED**

| Nos | 4 | 6 | 8 | 10 | 12 | 14 | |
|---|---|---|---|---|---|---|---|
| Diam. of Mouth | 3 | 3½ | 4½ | 5½ | 6 | 6½ | inch. |
| Per dozen | $3.90 | 6.40 | 10.20 | 18.00 | 21.60 | 26.40 | |

**NICKEL-PLATED**

| Nos | 2 | 4 | 6 | 8 | 10 | |
|---|---|---|---|---|---|---|
| Diameter of Mouth | 2⅜ | 3 | 3½ | 4½ | 5½ | inch. |
| Per dozen | $2.60 | 4.80 | 8.10 | 12.00 | 21.50 | |

## WHITE METAL TEA BE

**NICKEL-PLATED**

| | | |
|---|---|---|
| No. | **21**—Diameter of Mouth 2¼ inch, Rosewood Handles.....per doz. | $3.50 |
| " | **22**—Diameter of Mouth 2⅜ inch, Rosewood Handles.....per doz. | 3.90 |
| " | **6818-1**—Diameter of Mouth 2 inch, Ebonized Wood Handles....per doz. | 2 60 |
| " | **6818-2**—Diameter of Mouth 2½ inch, Ebonized Wood Handles....per doz. | 3.20 |
| " | **6818-3**—Diameter of Mouth 3½ inch, Ebonized Wood Handles....per doz. | 3.80 |



Nos. 21 and 22



No. 6818

# TABLE BELLS



No. 1872



No. 1858



No. 1823

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. | 1872-7 | —2¾ | inch, Nickel-Plated Steel Dome and Stand, to Push | | | per doz. | $ 5.00 |
| " | 1872-8 | —3¼ | " | " | " | " | 6.00 |
| " | 1858-8 | —3¼ | " | " | Bronzed Stand, to Push | " | 5.00 |
| " | 1823 | —2¾ | " | " | and Stand, Electric | " | 16.50 |
| " | 8091 | —2¾ | " | " | Bronzed, to Turn | " | 7.50 |

## NEW DEPARTURE CALL BELLS



Nos. 12 and 22



Nos. 32 and 42

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. | 12 | —2½ | inch Gong, Nickel-Plated Gong and Figured Base | | | per doz. | 20.00 |
| " | 32 | —2½ | " | " | Plain " | " | 20.00 |
| " | 22 | —3¼ | " | " | Figured " | " | 28.00 |
| " | 42 | —3¼ | " | " | Plain " | " | 28.00 |



No. 57



No. 58

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. | 57 | —3 | inch, Silver-Plated Gong and Base | | | per doz. | 54.00 |
| " | 58 | —3 | " | " | " | " | 54.00 |
| " | 59 | —2½ | " | " | " | " | 54.00 |

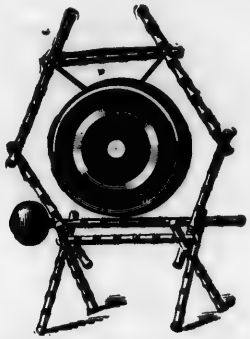
In the New Departure Call Bells electrical results are obtained without the aid of a Battery. The winding is quickly done by simply turning the gong. Fully 250 rings for each winding.

# TABLE GONGS

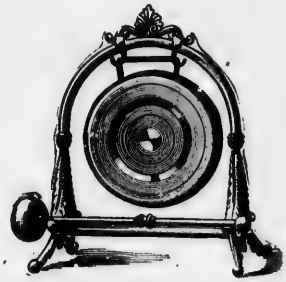
**POLISHED BRASS OR ANTIQUE FINISH**



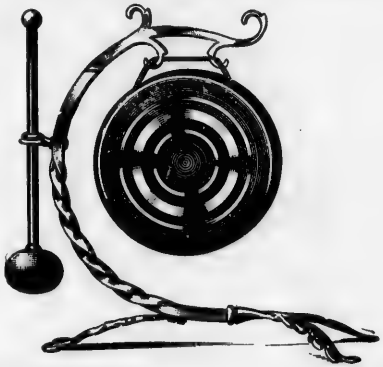
No. **50**—4½ inch Gong.....each $3.00 |



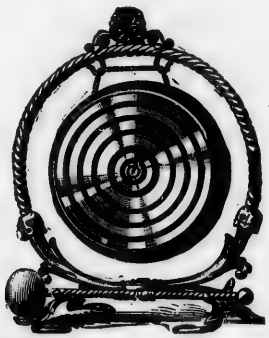
No. **52**—4½ inch Gong....each $3.40 |



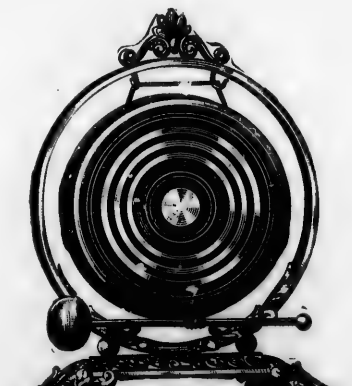
No. **54**—4½ inch Gong.....each $4.50



No. **60**—6 inch Gong.....each $5.25 |



No. **63**—6 inch Gong.....each $5.65



No. **70**—8 inch Gong.....each $10.50 |



No. **75**—8 inch Gong.....each $7.50

# AWNING SLIDES

## MALLEABLE IRON, GALVANIZED



No. 221



No. 222

| Size | | ⅜ | ½ | ⅝ | ¾ inch. |
|---|---|---|---|---|---|
| No. 221 | per doz. | $0.65 | 0.80 | 1.25 | 1.55 |
| " 222 | " | 1.25 | 1.55 | .... | .... |

RICE LEWIS & SON

## AWNING HINGE



No. 228

No. 228—Awning Hinges, Malleable Iron, Galvanized ..... per doz. $0.50

## AWNING SLIDE RODS



No. 227

| Size | | ⅜ | ½ | ⅝ inch. |
|---|---|---|---|---|
| No. 227—Galvanized | per lb. | $0.24 | 0.22 | 0.20 |

Measure in the clear.

## AWNING HOOKS



No. 235

| Size | | 1 | 1¼ | 1½ | 2 | 2½ | 3 | 3½ inch. |
|---|---|---|---|---|---|---|---|---|
| No. 235 —Plain | per gross | $0.50 | 0.60 | 0.70 | 0.80 | 1.00 | 1.60 | 2.00 |
| " 235G—Galvanized | " | 0.60 | 0.70 | 0.80 | 1.00 | 1.30 | 2.60 | 2.50 |

# PERFECTION WINDOW STOP ADJUSTERS

**TAPLIN'S**

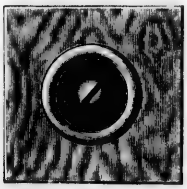




| | Per gross |
|---|---|
| No. 1—Bronze Metal..... | $6.40 |
| " 22—Oxidized Copper.... | 6.40 |
| " 31—Steel, Blued ..... | 4.80 |

Packed with Round Head Screws.

One dozen in a box; 12 boxes in a carton.



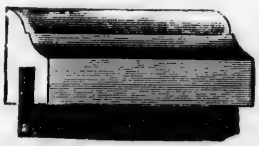
DIRECTIONS.—Bore a ½ inch hole through the Bead or Stop, drive in the Adjuster, keeping the Slot as per illustration, press the Slot or Bead tightly against the Window Sash and put the Screw exactly in the Centre of Slot.

## WEATHER STRIP

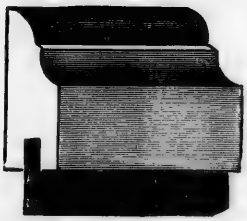
**WOOD AND FELT**



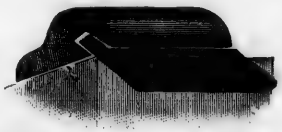
No. 0—For Sides, Tops and Bottoms of Windows, Price .....per ft. $0.04



No. 1—For Sides and Tops of Doors and Large Windows.....per ft. 0.05



No. 2—For Bottoms of Doors.....per ft. $0.09



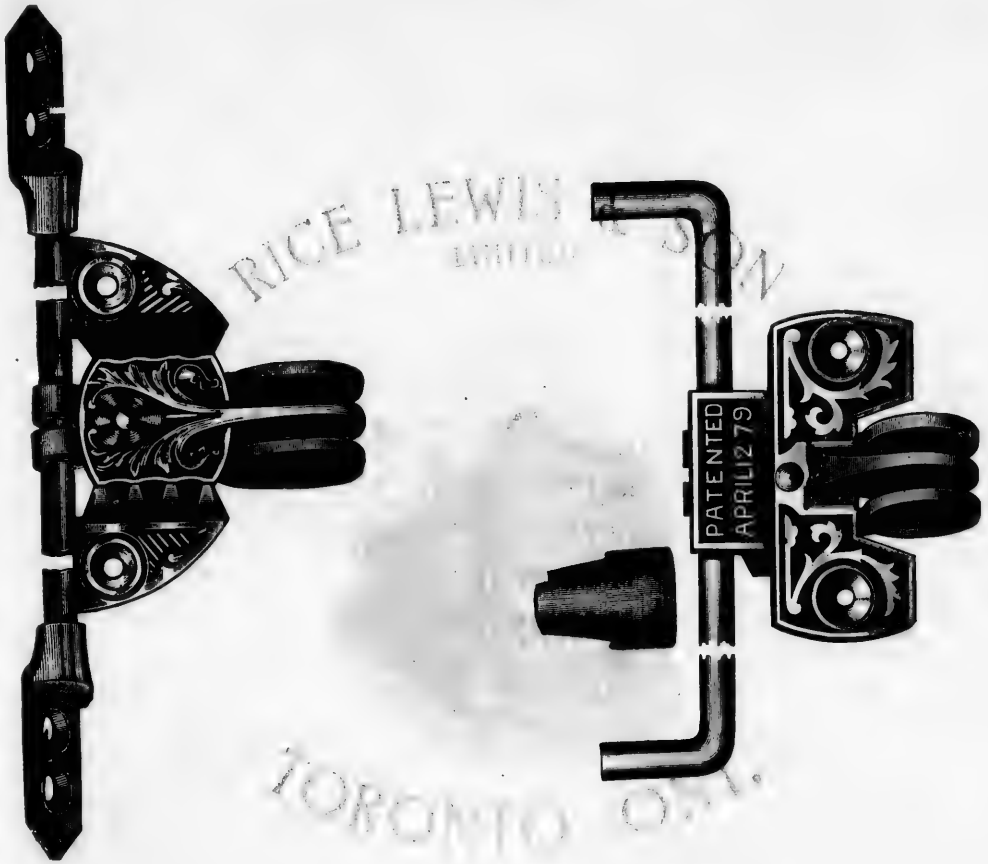
No. 4—For Joints between Sashes and for Centre of Double Doors.....per ft. 0.07

Nos. 0 and 1 in 500 feet, and Nos. 2 and 4 in 200 feet bundles.

# SASH LOCKS AND SUPPORTS

## COOKE'S

**Locks Sash at any point.**




RICE LEWIS & SON
LIMITED
TORONTO ONT.

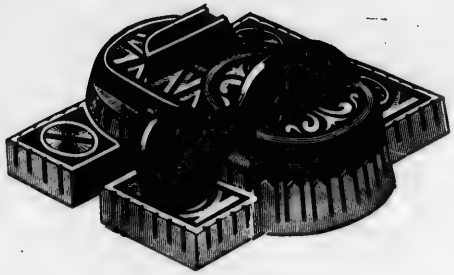
SURFACE

MORTISE

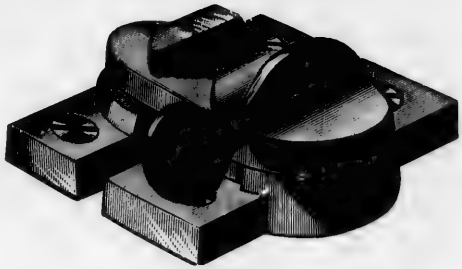
| | | | |
|---|---|---|---|
| No. 1—Amber Bronzed, | "Surface," for Lower Sash only | per doz. | $3.00 |
| 2— " " | "Mortise," for Upper or Lower Sash | " | 3.00 |

**Can be supplied in Bronze Metal or Oxidized Copper to order.**

# SASH FASTENERS



Nos. **2900** to **4900**

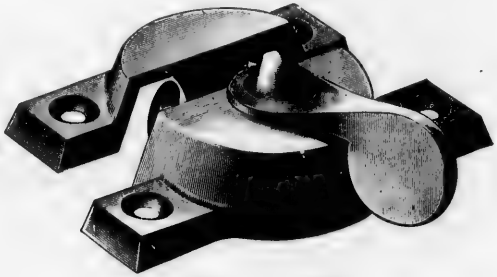


No. **1900**

| | | | |
|---|---|---|---|
| No. **2900**—Bronze Metal (3 Finish) | per doz. | $5.00 |
| " **3900**—Amber Bronzed | " | 1.00 |
| " **4900**—Bronze-Plated (10 Finish) | " | 2.50 |
| " **1900**—Plain, Bronze Metal, Polished | " | 5.00 |

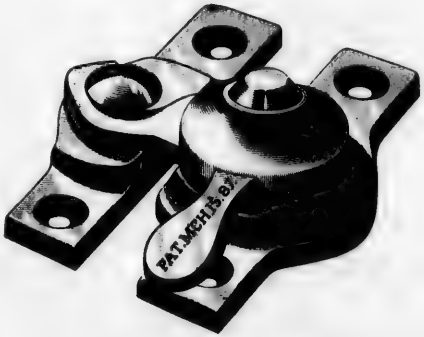


Nos. **03827** and **P03827**

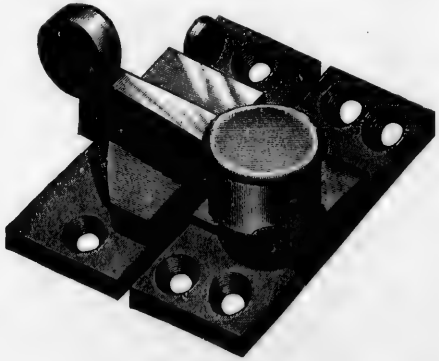


Nos. **1827½** and **N01827**

| | | | |
|---|---|---|---|
| No. **03827**—Iron, Amber Bronzed | per doz. | 0.90 |
| " **P03827**— " Persian Bronzed (14 Finish) | " | 2.10 |
| " **N01827**— " Plain, Bronze-Plated | " | 2.30 |
| " **1827½**—Bronze Metal, Plain, Polished | " | 4.10 |




Nos. **1428** and **N1428**

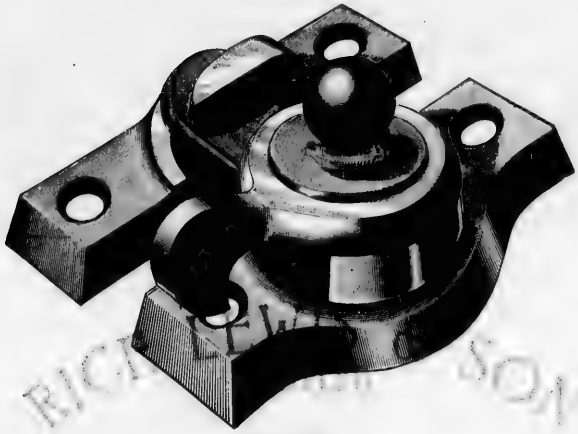


No. **4350**

| | | | |
|---|---|---|---|
| No. **1428**—Wrought Steel, Amber Bronzed | per doz. | 1.35 |
| " **N1428**— " " Plain, Bronze-Plated | " | 2.10 |
| " **4350**—Bronze Metal, Self Locking | " | 6.50 |

One dozen in a box.

# SASH FASTENERS



No. 1527½

No. **1527½**—Bronze Metal, Extra Heavy (for Large Windows)..... per doz. $11.70

One dozen in a box.

## WINDOW SPRING BOLTS



Nos. **10** and **20**. Full size cut.

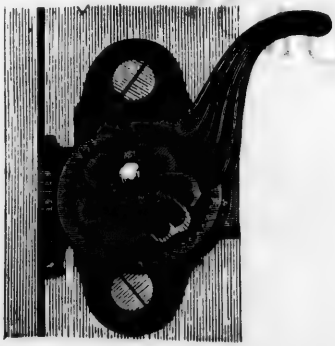
No. **10**—Japanned..... per gross 2.20

" **20**—Japanned, Silver Tipped..... " 2.90

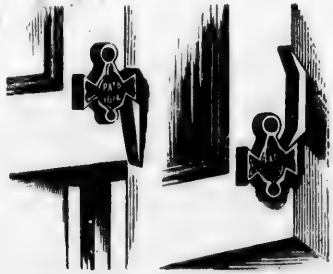
One-half gross in a box.

## SASH OR WINDOW LOCKS

GARRETSON'S



DIXON'S



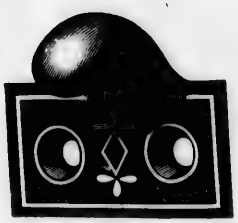
WINDOW OPEN WINDOW CLOSED

Garretson's, Coppered Iron..... per gross 6.00

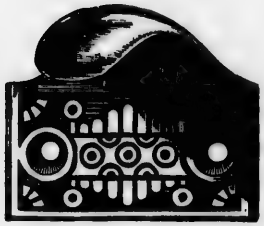
Dixon's, Coppered Iron..... " 8.00

Half gross in a box.

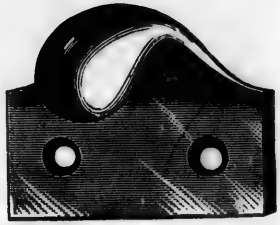
# SASH LIFTS



No. T3940



Nos. T443A and 4941

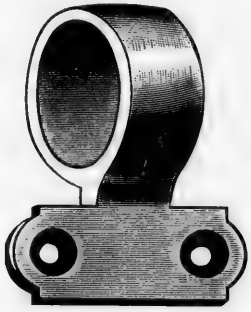


Nos 2180, 2180½, 2184

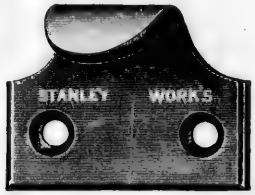
| | | | |
|---|---|---|---|
| No. **T3940**—Amber Bronzed | per gross | $3.00 |
| " **T443A**— " " | " | 3.00 |
| " **T441** — " " | " | 3.70 |
| " **4941** —Bronze-Plated (10 Finish) | " | 6.72 |
| " **2180½** —Bronze Metal, Light | " | 8.40 |
| " **2180** — " " Medium | " | 15.00 |
| " **2184** — " " Heavy | " | 31.25 |




No. 483



No. 1943




No. 485

| | | | |
|---|---|---|---|
| No. **483**—Steel, Bronzed, Planished, Square Edge | per gross | 3.00 |
| " **485**— " " Polished, Beveled Edge | " | 7.85 |
| " **487D2**— " Planished, Old Copper Finish | " | 4.60 |
| " **1943**—Bronze Metal, Ring Sash Lift | " | 16.00 |



No. 3951



Nos. 951 and 4951P

| | | | |
|---|---|---|---|
| No. **3951**—Amber Bronzed | per doz. | 0.50 |
| " **4951P**—Plain Iron, Bronze-Plated | " | 0.80 |
| " **951**— " Bronze Metal, Polished | " | 1.20 |

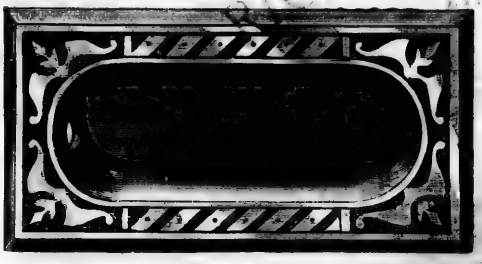
# SASH LIFTS



No. 2226½

No. **2226½**—4 x 1⅛ inch, Bronze Metal, Fluted.....per doz. $5.40

PRICE LEWIS & SON



No. 3196



No. 2224

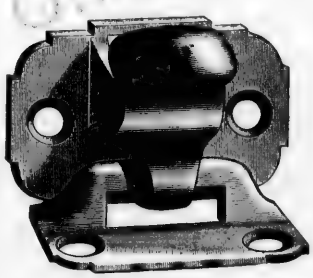
No. **3196**—3 x 1¾ inch, Iron, Amber Bronzed.....per doz. 0.70
" **P3196**—3 x 1¾ " " Persian " (14 Finish)..... " 1.10
" **2224**—3⅜ x 2 inch, Cast Bronze Metal..... " 4.50
" **2215**—3 1/16 x 1 5/16 " Wrought Bronze Metal, recess similar to 3196..... " 1.15

## SASH LIFTS AND LOCKS COMBINED

TORONTO, ONT.



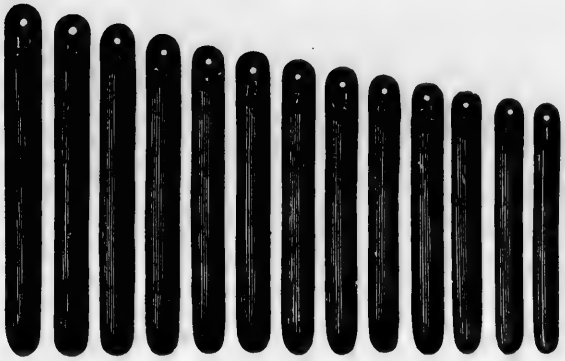
No. 3313



No. 4313½

No. **3313**—Iron, Amber Bronzed.....per doz. 1.10
" **4313½**—Bronze Metal..... " 6.00

# SASH WEIGHTS



SOLID



SECTIONAL

Solid, Cast Iron, Regular Stock Sizes, 3 to 20 lbs. each ..... per 100 lbs. $4.00

Sectional, " " " ¼, ½ and 1 lb. " ..... " 6.00

## TABLE OF WEIGHTS

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Solid | 3 | 3½ | 4 | 4½ | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | lbs. |
| Diameter | 1⅛ | 1⅛ | 1⅛ | 1⅛ | 1⅛ | 1⅛ | 1⅛ | 1⅛ | 1⅛ | 1⅛ | 1⅛ | 1⅛ | 1⅛ | 1⅛ | 1⅛ | 1⅛ | 1⅛ | 1⅛ | 1⅛ | 1⅛ | inches. |
| Length | 6 | 6½ | 7½ | 8½ | 9½ | 11 | 13 | 15 | 17 | 19 | 20½ | 22½ | 24½ | 26 | 28 | 30 | 32 | 34 | 35½ | 36½ | " |

## WEIGHT OF WINDOWS

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Size of Glass | 12x20 | 12x24 | 12x28 | 12x32 | 12x36 | 13x26 | 13x32 | 13x36 | 14x24 | 14x32 | 14x36 | 14x40 | inches. |
| Four Lights, per Window | 16 | 18 | 20 | 22 | 24 | 22 | 24 | 26 | 22 | 26 | 28 | 30 | lbs. |
| Size of Glass | 20x30 | 20x34 | 22x28 | 22x34 | 24x26 | 24x32 | 24x36 | 26x30 | 26x36 | 26x40 | 28x30 | 28x36 | 28x40 | inches. |
| Two Lights, per Window | 18 | 22 | 20 | 24 | 20 | 22 | 24 | 22 | 26 | 28 | 24 | 28 | 30 | lbs. |

NOTE.—In hanging window sashes, four Sash Weights of one-fourth above weights are required for each window. Above estimates are based on 1⅜ inch Sash with Star Glass. Star Glass averages 1 lb. to the square foot; Double Diamond Glass, 1¼ lbs.; Plate Glass, 4 lbs.

## SASH CORD IRONS

Full size cuts.



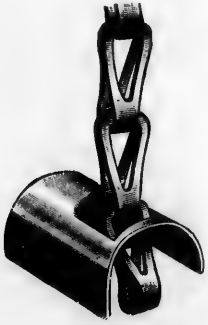
No. 1



No. 3



No. 574



No. 574

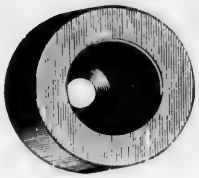
No. 1—Cast Iron, to Screw on ..... per gross $0.90

" 3— " Drive, without Screws ..... " 1.00

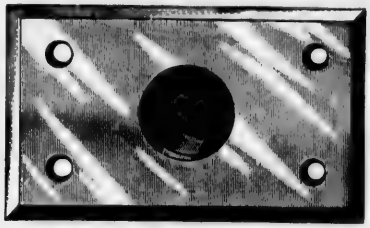
" 574—Steel, Coppered, for Rope or Chain ..... " 1.00

One gross in a box.

# SASH PLATES AND SOCKETS



Nos. 3186½ and 2186½



No. 1289

| | | Per doz. |
|---|---|---|
| No. | 3186½—Iron, Amber Bronzed Sash Socket | $0.45 |
| " | N3186½— " Bronze Plated " " | 0.65 |
| No. | 2186½—Bronze Metal Sash Socket | $0.90 |
| " | 1289 — " " Sash Plate | 2.70 |

## SASH PULL HOOK



Nos. 2287 to 3287

| | | | |
|---|---|---|---|
| No. | 3287—Iron, Amber Bronzed | per doz. | 1.45 |
| " | N3287—" " Bronze-Plated, Plain | " | 4.15 |
| " | 2287—Bronze Metal | " | 6.50 |

## SASH CENTRES

FLUSH SASH CENTRES

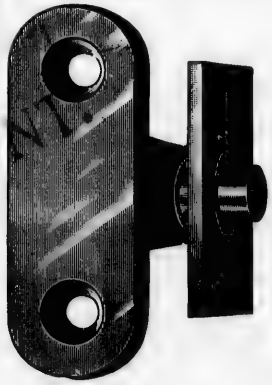




No. 1

No. 2

SURFACE SASH CENTRES



No. 603

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| No. | 1—Iron, Japanned, | 4 | Pieces in a Set | | | | per gross sets | | $ 5.00 |
| " | 2— " " | 4 | " " | | | | " " | | 10.50 |
| " | 602— " Bronzed, | 4 | " " | Size of Plate, 1⅝ x ⅝ | inch | | per doz sets | | 0.90 |
| " | 603— " " | 4 | " " | " " | 2⅜ x ⅞ | " | " " | | 1.40 |
| " | 604— " " | 4 | " " | " " | 2⅜ x 1 | " | " " | | 2.30 |

# PATENT SASH CENTRE OR PIVOT



No. 1305. Half Set.

Special attention of Architects and Builders is called to this novel invention, enabling anyone to hang a sash from the central point either upright or horizontal. Directions:—Place one half with the pin at either end of the sash, secure one arm to the sash frame, fit the other pivot, put them in the sash and place in position, turn at right angles and make secure.

| | | |
|---|---|---|
| No. **1305**—Malleable Cast, with Turned Centres | per doz. sets | $10.80 |
| " **1305½**—Bronze Metal, Steel Pin and Bushing, Turned Centres | " " | 24.00 |

## SASH ROLLERS



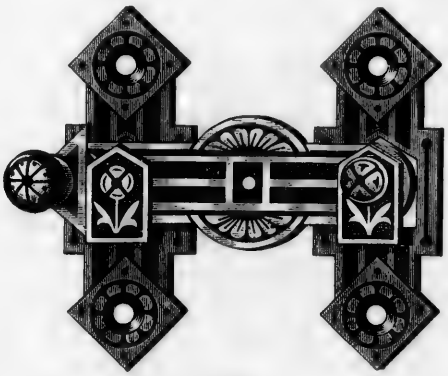
No. 10



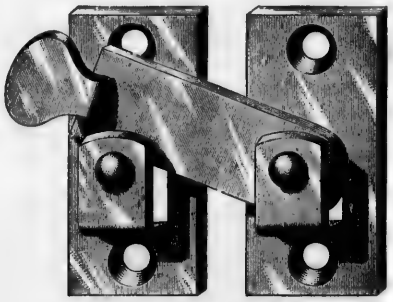
No. 593

| Size | | ⅝ | ¾ | ⅞ | 1 | 1¼ | 1½ inch. |
|---|---|---|---|---|---|---|---|
| No. **10**—Iron, Japanned | per gross | $2.50 | 3.00 | 4.00 | 5.00 | 6.50 | .... |
| " **593**— " " heavy | " | .... | .... | .... | 7.60 | 10.80 | 17.30 |

## SHUTTER BARS



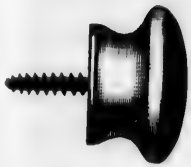
No. T165A



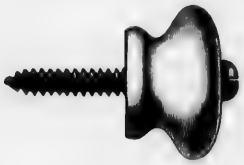
Nos. 937 to 937½

| | | | |
|---|---|---|---|
| No. **T165A**—2½ inch, Amber Bronzed, with Bronze Metal Knob | per doz. | $1.40 |
| " **937**—2 " Wrought Steel, Amber Bronzed | " | 0.90 |
| " **N937**—2 " " " Bronze-Plated | " | 1.80 |
| " **937½**—2 " Bronze Metal | " | 2.20 |

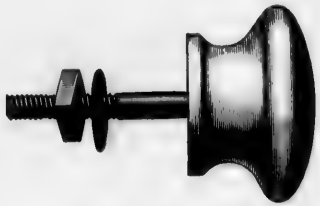
# PORCELAIN SHUTTER AND DRAWER KNOBS



No. 1, 1 inch.



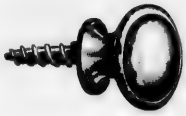
No. 15, 1 inch.



No. 5, 1¼ inch.

| Size | | ⅝ | ¾ | 1 | 1¼ | 1½ | 1¾ | 2 inch. |
|---|---|---|---|---|---|---|---|---|
| No. 1—With Fast Screw | per gross | $2.85 | 3.00 | 3.40 | 4.80 | 6.00 | .... | .... |
| " 15—With Round Head, Tinned Screw | " | 2.00 | 2.20 | 2.40 | 3.40 | 4.20 | 6.20 | 7.40 |
| " 5—Drawer Knob, with Bolt | " | .... | .... | 6.30 | 8.00 | 9.20 | 11.40 | 13.00 |

## SHUTTER KNOBS



No. 1534, ⅞ inch.



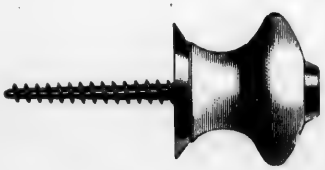
No. 1534, 1 inch.



No. 3170

| Size | | ¾ | 1 | 1⅛ | 1¼ inch. |
|---|---|---|---|---|---|
| No. 1534—Plain Bronze | per doz. | $0.90 | 0.90 | 0.90 | 2.20 |
| " 3170—Amber Bronzed | " | .... | .... | 0.35 | .... |
| " P3170—Persian Bronzed (14 Finish) | " | .... | .. . | 0.90 | .... |

## PICTURE KNOBS



No. 122



No. 122½

| | | |
|---|---|---|
| No. 122—1 inch, Porcelain, Nickel Trimmings | per gross | $5.00 |
| " 122½—1 " Jet, " " | " | 5.00 |

# DOOR BUTTONS



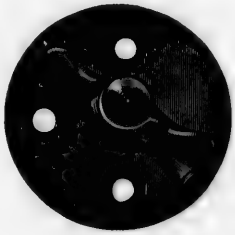
No. **10**, 1¼ inch.



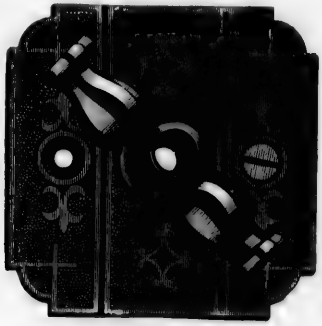
No. **4855**, 1⅝ inch.

| Size | | 1¼ | 1½ | 1¾ | 2 | 2¼ | 2½ inch. |
|---|---|---|---|---|---|---|---|
| No. **10**—Iron, Japanned | per gross | $0.55 | 0.60 | 0.70 | 0.90 | 1.30 | 1.70 |
| " **4855**—Brass, Lacquered | " | 2.90 | 3.80 | .... | .... | .... | .... |

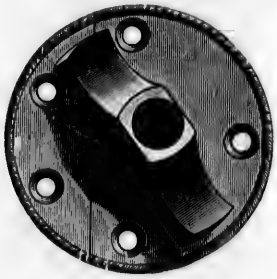
One gross in a box.



No. **20**, 1½ inch.



No. **32**, 2 inch.



No. **186**, 1⅞ inch.

| Size | | 1½ | 1¾ | 2 inch. |
|---|---|---|---|---|
| No. **20**—Iron, Japanned | per gross | $3.00 | 3.20 | 3.50 |
| " **25**— " " (as No. 20, with Spring) | " | 3.80 | .... | .... |
| " **32**— " Bronzed | " | .... | .... | 6.60 |
| " **186**—Brass, Lacquered | " | .... | 14.40 | 16.80 |

Half gross in a box.

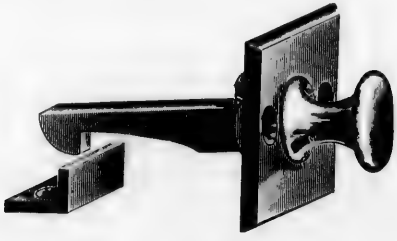
## ELBOW CATCH

## LEVER CATCH

For Cupboard Doors.



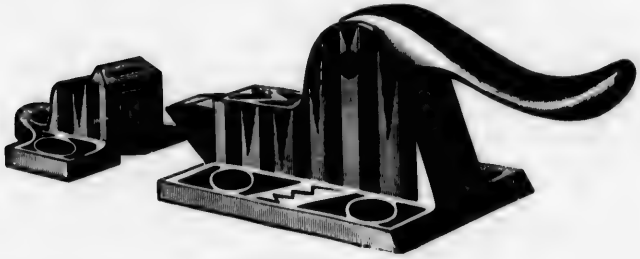
Nos. **6300** and **1623**



No. **329**

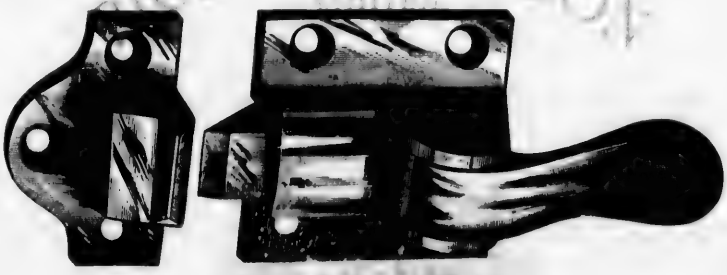
| | | |
|---|---|---|
| No. **6300**—Iron, Japanned | per doz. | $0.60 |
| " **1623**—Brass, Polished | " | 2.00 |
| " **329**—Bronze Metal | " | 3.60 |

# REFRIGERATOR CATCHES



**Nos. 1020 and 1023**

No. **1020**—1½ inch, Amber Bronzed ..... per doz. $3.00
" **1023**—2 inch, " " ..... " 4.00



**Nos. 1029 and 1031**

No. **1029**—2 inch, Bronze Metal, Polished ..... per doz. 11.00
" **1031**—2 " " " Nickel-Plated ..... " 12.00



**Nos. 1035 and 1036, Left Hand Catch. Full size cut.**

No. **1035**—Bronze Metal, Polished ..... per doz. 16.00
" **1036**— " " Nickel-Plated ..... " 18.00

**Half-dozen in a box.**

**When ordering, mention Hand wanted.**

# SPRING DOOR CATCHES

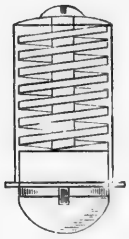
Full size cuts.



No. 85



No. 11P



No. 13

| | | | |
|---|---|---|---|
| No. **85** | —Catch, with Brass Shell, with either Square or Round Brass Striker | per gross | $ 8.45 |
| " **85S**— | " " " " " " Steel " | " | 7.00 |
| " **11P**— | " " " " " " Brass " | " | 19.75 |
| " **13** — | " " " with Square Iron Striker | " | 33.75 |

One gross in a box.

The No. 85 cannot be extended as in Nos. 11P and 13. No. 11P is noiseless, suitable for Pianoforte Desks; in construction two leather collars are placed inside the shell, one at each end of the spring; these collars are made to fit tightly and prevent any looseness or rattle of the various parts. In addition to these there is also a leather collar placed outside between the shell and the head of the screw.

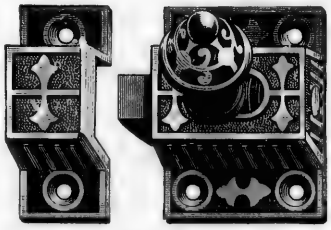


No. 1084

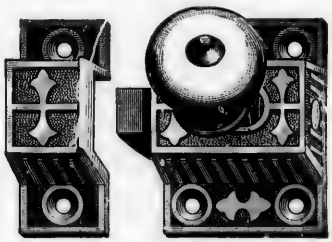
| | | | |
|---|---|---|---|
| No. **1084**— | Brass Catch, with Square Brass Striker, $1\frac{7}{8}$ x $\frac{3}{4}$ inch | per gross | $21.50 |
| " **1121**— | " Angle " " $1\frac{1}{4}$ x $\frac{3}{4}$ " | " | 13.00 |

Half gross in a box.

## FRENCH WINDOW CATCHES



No. 3210



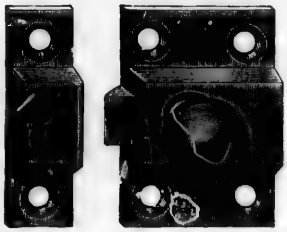
No. 3215

| | | | |
|---|---|---|---|
| No. **3210**- | Amber Bronzed, with Bronze Metal Knob | per gross | 10.00 |
| " **3215**— | " " " Porcelain Knob | " | 11.00 |

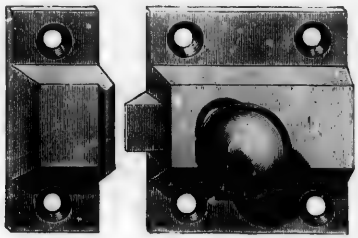
One-sixth gross in a box.

# FRENCH WINDOW AND CUPBOARD CATCHES

Full size cuts.

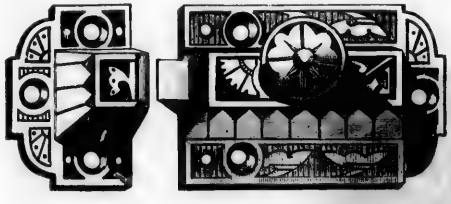


Nos. N13270 and 2270½

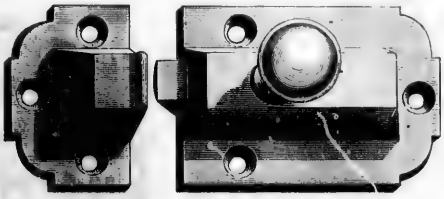


No. 2271½

No. N13270 —Bronze-Plated ..... per doz. $1.80
" 2270½—Bronze Metal ..... " 3.60
" 2271½— " " ..... " 4.00
" 2272½— " " size 1½ x 1¾ inches, as No. 2271½ ..... " 4.50



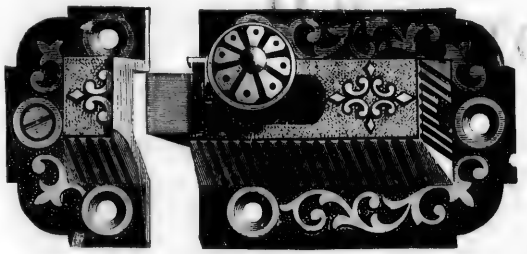
No. 1260



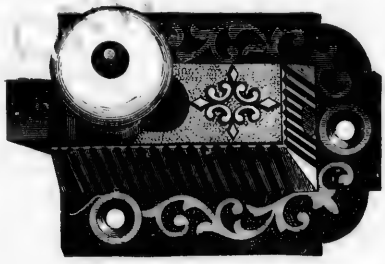
No. N13029

No. 1260—Amber Bronzed, with Bronze Metal Knob ..... per gross 9.50
" N13029—Bronze-Plated, " " " ..... " 22.50

One dozen in a box.



No. 262



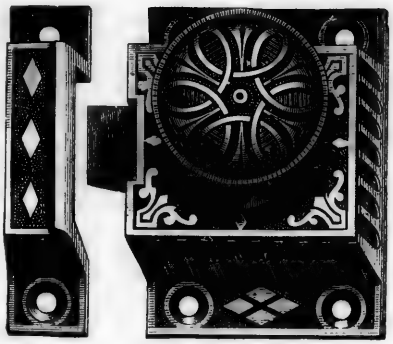
No. 267

No. 262—Amber Bronzed, with Bronze Metal Knob ..... per gross 9.50
" 267— " " " Porcelain Knob ..... " 11.20

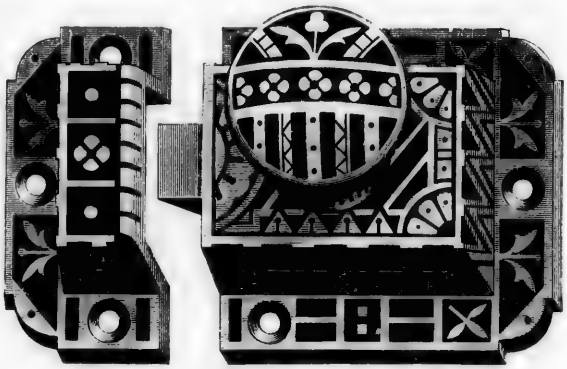
One-sixth gross in a box, with Screws.

# CUPBOARD CATCHES AND TURNS

Full size cuts.

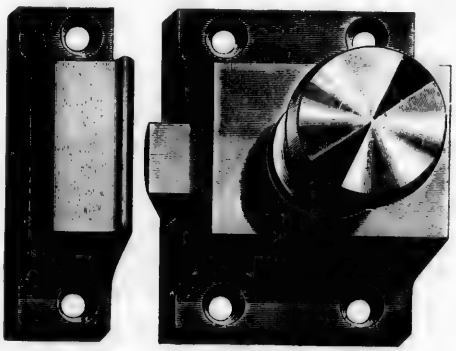


Nos. T4230 and T4430

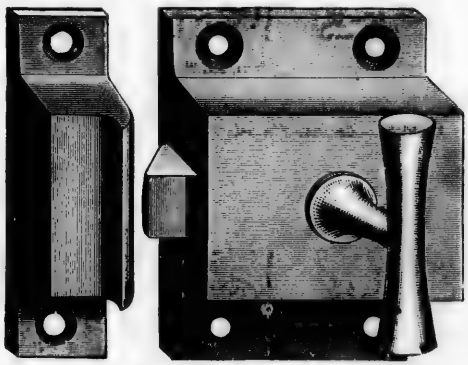


Nos. T4250A and T4450A

| | | | | |
|---|---|---|---|---|
| No. T4230 | —Amber Bronzed | | per doz. | $1.60 |
| " T4430 | — " " | with Bronze Metal Knob | " | 2.00 |
| " T4250A | — " " | | " | 2.40 |
| " T4450A | — " " | with Bronze Metal Knob | " | 2.90 |



Nos. N13041 and 2241½



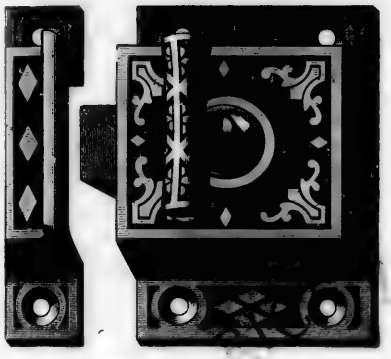
Nos. N13039 and 2039½

| | | | | |
|---|---|---|---|---|
| No. N13041 | —Bronze-Plated | | per doz. | 4.00 |
| " 2241½ | — " | Metal | " | 7.20 |
| " N13042 | — " | Plated (heavier) | " | 4.85 |
| " 2242½ | — " | Metal " | " | 8.00 |
| " N13039 | — " | Plated, with Bronze Metal T Handle | " | 4.50 |
| " 2039½ | — " | Metal, " " " " | " | 7.20 |

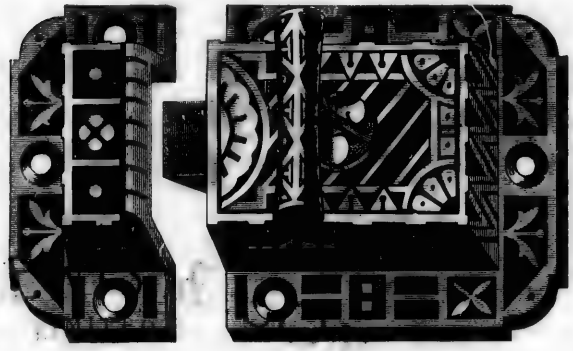
One dozen in a box, with Screws.

# CUPBOARD TURNS

Full size cuts.



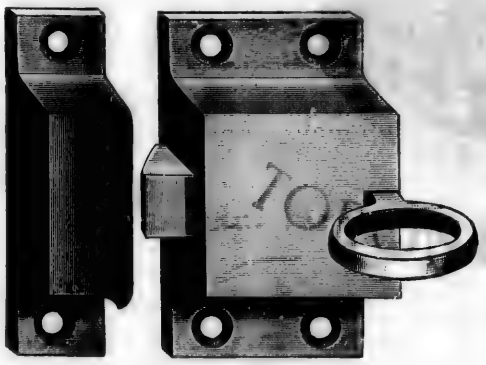
Nos. 4432 and P3039



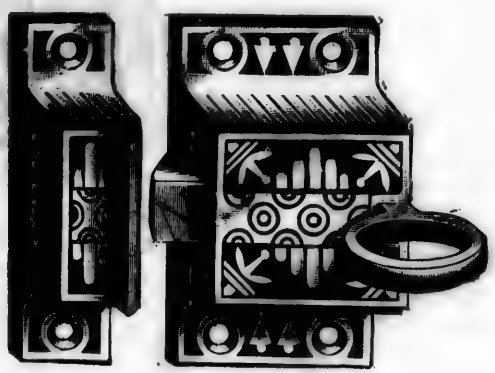
No. 4452A

| | | | |
|---|---|---|---|
| No. | 4432 —Amber Bronzed, with Bronze Metal T Handle | per doz. | $2.40 |
| " | P3039 —Persian " (14 Finish), with Bronze Metal T Handle | " | 3.00 |
| " | 4452A—Amber " with Bronze Metal T Handle | " | 3.70 |

## TRANSOM CATCHES



No. 2278½

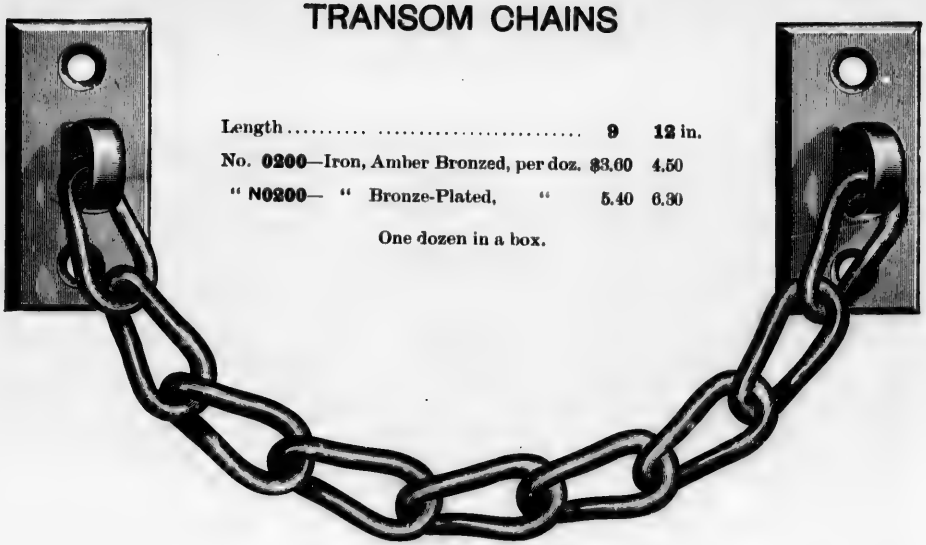


Nos. 3278 to P3278

| | | | |
|---|---|---|---|
| No. | 2278½—Bronze Metal | per doz. | 7.20 |
| " | 3278 —Amber Bronzed | " | 1.60 |
| " | 3278½— " " with Flush Strike | " | 1.60 |
| " | P3278 —Persian Bronzed (14 Finish) | " | 2.50 |

One dozen in a box, with Screws.

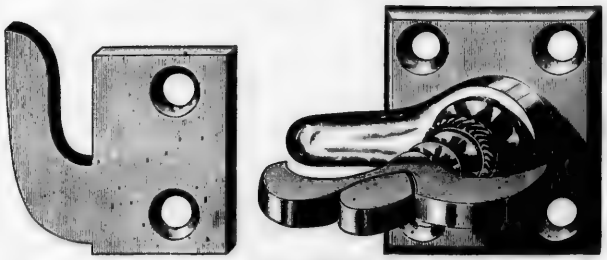
# TRANSOM CHAINS



| Length | 9 | 12 in. |
|---|---|---|
| No. **0200**—Iron, Amber Bronzed, per doz. | $3.60 | 4.50 |
| " **N0200**— " Bronze-Plated, " | 5.40 | 6.30 |

One dozen in a box.

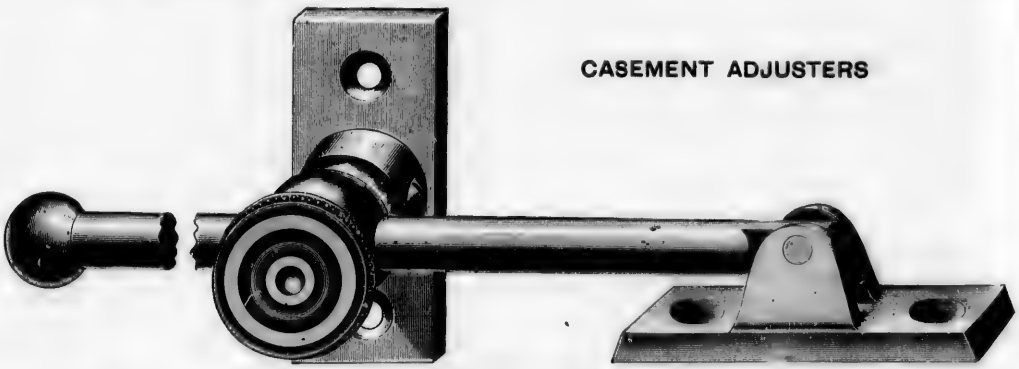
## CASEMENT FASTENERS



No. **02160**

| | | |
|---|---|---|
| No. **02160**—Bronze Metal, with Screws | per doz. | $9.00 |
| " **4681**—Brass, with Lever Handle | " | 5.00 |

## CASEMENT ADJUSTERS



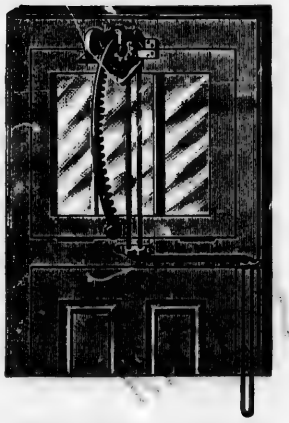
Nos. **013½** and **43½**

| | | |
|---|---|---|
| No. **013½**—12 inch Rod, Iron, Coppered | per doz. | 8.00 |
| " **N013½**—12 " " Bronze-Plated | " | 9.35 |
| " **43½**—12 " Bronze Metal | " | 20.70 |

One-third dozen in a box.

# CARTLAND'S PATENT WINDOW OPENERS

**Suitable for all kinds of Fanlights, Pivot Sashes, Skylights, etc.**



WINDOW CLOSED AND LOCKED



WINDOW PARTLY OPEN

| Size | | 12 | 14 | 16 | 18 | 24 inch. |
|---|---|---|---|---|---|---|
| No. **A2741**—Malleable Iron | each | $1.90 | 2.15 | 2.40 | 2.70 | 3.20 |
| " **A2740**—All Brass | " | 2.90 | 3.20 | 3.60 | 4.00 | 5.30 |

ADVANTAGES:—The action of this Window Opener is very simple. By pulling an endless cord a weighted lever is lifted out of gear, releasing the cog wheel, while by loosening the cord it throws the lever into gear again and securely locks the sash so that rattling, or shaking of the Fanlight, is entirely obviated. To close the window the same action is reversed by pulling the other cord. In this pattern the stay falls down out of the way of blinds curtains, etc.

In erecting, fix the plates as close together as possible, without touching.

## VERITY'S EPICYCLOIDAL FANLIGHT OPENERS



No. 1013

| Size | | 12 | 16 | 18 | 20 inch. |
|---|---|---|---|---|---|
| No. **1013**—Malleable Iron, Gun Metal Wheel | each | $2.70 | 3.00 | 3.30 | 3.60 |

## LEGGOTT'S FANLIGHT OPENERS



No. 1501

| Size | | 12 | 16 | 21 inch. |
|---|---|---|---|---|
| Opens | | 10 | 14 | 18 |
| No. **1501**—Malleable Iron, Gun Metal Wheel | each | $1.50 | 2.15 | 4.00 |
| " **1501B**—All Brass | " | 2.15 | 3.20 | 7.90 |

The 12 inch is suitable for Fanlights 2 ft. square or equal area; 16 inch, 3 ft. square or equal area; 21 inch, for large and very heavy Fanlights.

# TRANSOM LIFTERS

## PAYSON'S SOLID GRIP TRANSOM LIFTERS

BRONZED IRON

STEEL BRACKET AND LOCK

BRASS TRIMMINGS



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. **503**—$\frac{5}{16}$ | inch | Rod, | length | 3 | feet | each | $0.30 |
| " **303**—$\frac{1}{4}$ | " | " | " | 3 | " | " | 0.30 |
| " **304**—$\frac{1}{4}$ | " | " | " | 4 | " | " | 0.35 |
| " **314**—$\frac{5}{16}$ | " | " | " | 4 | " | " | 0.85 |
| " **315**—$\frac{5}{16}$ | " | " | " | 5 | " | " | 0.95 |
| " **325**—$\frac{3}{8}$ | " | " | " | 5 | " | " | 1.15 |
| " **326**—$\frac{3}{8}$ | " | " | " | 6 | " | " | 1.30 |
| " **328**—$\frac{3}{8}$ | " | " | " | 8 | " | " | 1.60 |

These Lifters can be used for **Top, Bottom** or **Centre** hung Transoms. **For Bottom hung sash always order lifts 18 inches longer** than usual. Lifters are measured from the handle at bottom to the bracket attached to Transom, when the short Connecting Rod is extended up and away from the Main Rod.

# TRANSOM LIFTERS

**CORBIN'S**



HINGED AT TOP



HUNG ON CENTRES



HINGED AT BOTTOM

RICE LEWIS & SON

## FOR TRANSOMS HINGED AT TOP OR HUNG ON CENTRES

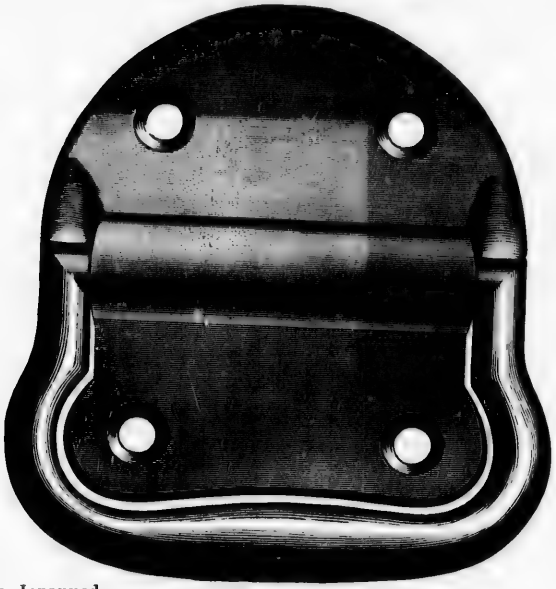
| Length | | | | | | | | 3 | 4 | 5 | 6 | feet. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | 083— | ¼ | inch Rod, | Iron, | Bronzed | | each | $0.35 | 0.35 | ... | .... | |
| " | 084— | 5/16 | " | " | " | | " | .... | 0.65 | .... | .... | |
| " | 085— | ⅜ | " | " | " | | " | .... | .... | 1.00 | 1.15 | |
| " | R083— | ¼ | " | " | Polished, | Oxidized | Copper | 0.60 | 0.60 | .... | .... | |
| " | R084— | 5/16 | " | " | " | " | " | .... | 1.00 | .... | .... | |
| " | R085— | ⅜ | " | " | " | " | " | .... | .... | 1.30 | 1.45 | |

## FOR TRANSOMS HINGED AT BOTTOM

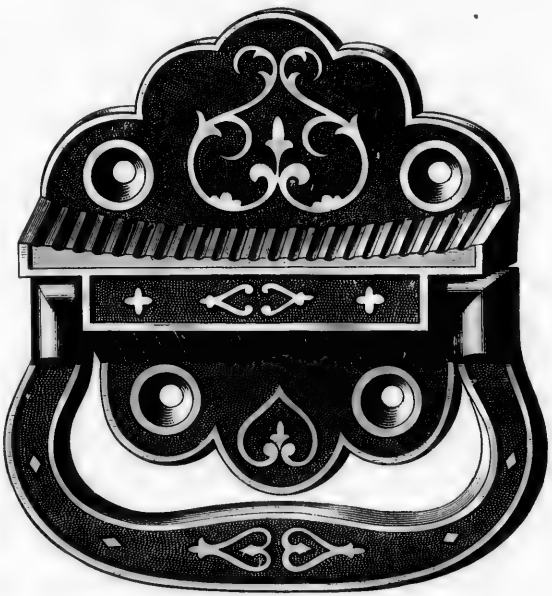
| Length | | | | | | | | 3 | 4 | 5 | 6 | feet. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | 093— | ¼ | inch Rod, | Iron, | Bronzed | | each | $0.45 | 0.50 | 0.65 | .... | |
| " | 094— | 5/16 | " | " | " | | " | .... | 0.80 | 0.90 | 1.00 | |
| " | 095— | ⅜ | " | " | " | | " | .... | .... | 1.00 | 1.30 | |
| " | R093— | ¼ | " | " | Polished, | Oxidized | Copper | 0.80 | 0.90 | 1.00 | .... | |
| " | R094— | 5/16 | " | " | " | " | " | .... | 1.00 | 1.30 | 1.45 | |
| " | R095— | ⅜ | " | " | " | " | " | .... | .... | 1.45 | 1.65 | |

In ordering Transom Lifters Hung at the Bottom, have Rod 12 to 18 inches longer than where used for Top or Centre Hung Sashes.

# CHEST HANDLES



| | | | |
|---|---|---|---|
| No. **10**—3½ inch, Cast Iron, Japanned | per doz. pairs | | $1.25 |
| " **11**—3½ " " " | " " | | 1.80 |
| " **12**—4 " " " | " " | | 2.60 |
| " **13**—4½ " " " | " " | | 3.30 |

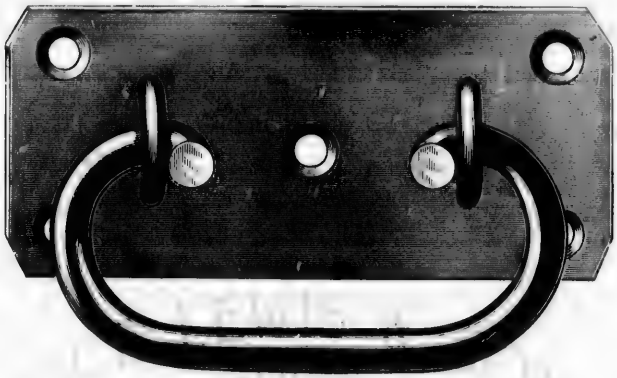


**No. 221.** Full size cut.

| | | | |
|---|---|---|---|
| No. **220**—2¾ inch, Amber Bronzed, Packed with Screws | per doz. pairs | | 2.30 |
| " **221**—3½ " " " " " | " " | | 3.00 |

Half-dozen pair in a box.

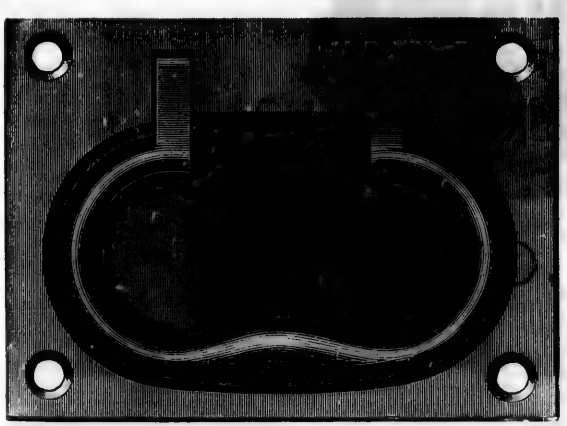
# WROUGHT IRON CHEST HANDLES



| Nos. | 1 | 2 | 3 | |
|---|---|---|---|---|
| Size | 4 | 4½ | 4⅞ | inch. |
| Per dozen pairs | $0.65 | 0.75 | 0.90 | |

One dozen pairs in a box.

## FLUSH CHEST HANDLES



Nos. 2 and 3

## FLUSH TRAP DOOR RINGS



No. 4. Full size cut.

No. 2—4⅜ x 3½ inch, Japanned.....per doz. pairs 3.00
" 3—5½ x 4½ " " ..... " " 6.00
" 4—Flush Trap Door Rings, Japanned.....per single doz. 1.20

# DRAWER PULLS



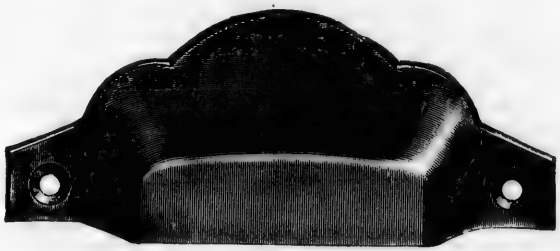
**No. 100.** Full size cut.

**No. 100**—Japanned ..... per gross **$2.10**



**Nos. 10 and 101.** Full size cut.

**No. 10**—Japanned ..... per gross 3.00
" **101**—Coppered ..... " 3.20



**No. 01.** Full size cut.

**No. 01**—Japanned ..... per gross **2.00**

Quarter gross in a box.

# DRAWER PULLS



**No. 575.** Full size cut.

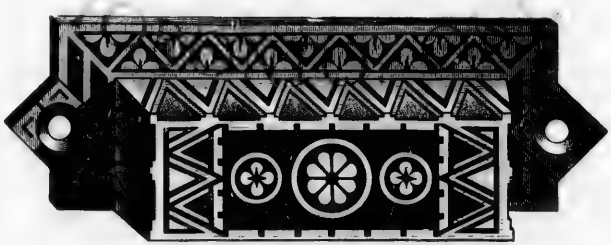
No. **575**—3 inch, Amber Bronzed, with Screws.....per gross $3.60
" **475**—3½ " " " " " ..... " 4.00
" **375**—4 " " " " " ..... " 4.70

RICE LEWIS & SON LIMITED



**No. 406.** Full size cut.

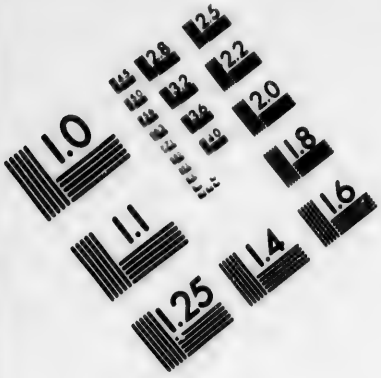
No. **406**—4 inch, Amber Bronzed, with Screws.....per gross 6.80

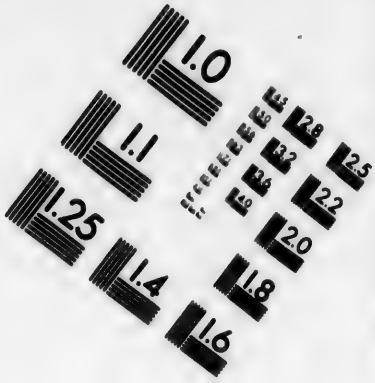


**No. T396A.** Full size cut.

No. **T396A**—4 inch, Amber Bronzed, with Screws.....per gross 5.80

Quarter gross in a box.



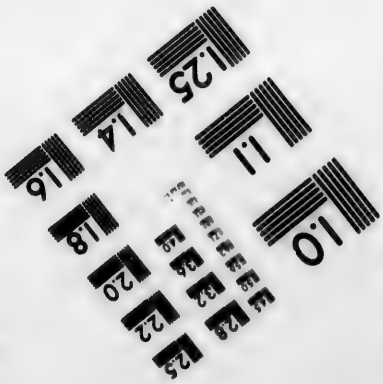




# IMAGE EVALUATION TEST TARGET (MT-3)










Photographic Sciences Corporation

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(716) 872-4503

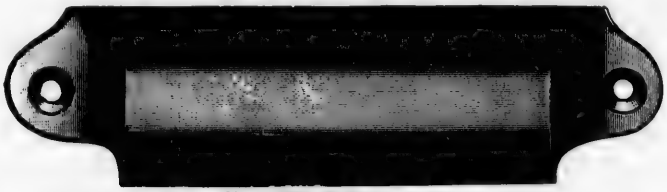
2.5
2.2
2.0
1.8
1.0

# DRAWER PULLS



**No. 4432.** Full size cut.

No. **4432**—3½ inch, Bronze-Plated (10 Finish) ..... per gross $7.50
" **4433**—3¾ " " " " ..... " 8 00



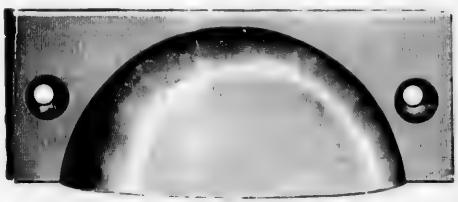
**No. 4435.** Full size cut.

No. **4435**—3½ inch, Bronze-Plated ..... per gross 8.00
" **4436**—4 " " " ..... " 8.50

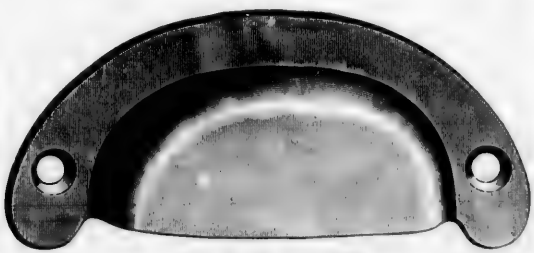


**No. 1241½.** Full size cut.

No. **1240½**—3 inch, Bronze Metal (Cast) ..... per doz. 3.00
" **1241½**—3½ " " " ..... " 3.25
" **1242½**—3¾ " " " ..... " 3.60



**Nos. 1362 and 1363**



**Nos. 2107½ to 2103½**

No. **1362**—2½ inch, Wrought Bronze Metal ..... per doz. 1.15
" **1363**—3½ " " " " ..... " 1.25
" **2107½**—2½ " " " " ..... " 1.15
" **2108½**—3½ " " " " ..... " 1.35
" **2103½**—3½ " " " " ..... " 1.50

Three dozen in a box.

# DRUGGIST DRAWER PULLS



**No. 586. Full size cut.**

**No. 586**—Amber Bronzed, with Screws, size of Label ¾ x 2 inch.....per gross **$7.00**



**No. T3439. Full size cut.**

**No. T3439**—Amber Bronzed, with Screws.....per gross **6.50**



**No. 346. Full size cut.**

**No. 346**—Amber Bronzed, with Screws, size of Label ⅞ x 2⅜ inch.....per gross **10.40**

Quarter gross in a box.

# CARD HOLDERS



No. **741.** Full size cut.



No. **743.** Full size cut

No. **741**—Wrought Bronze Card Holder and Pull ..... per doz. $1.35
" **743**— " Brass " ..... " 0.55



No. **402.** Full size cut.

No. **402**—Dark Antique ..... per gross 7.20

# LOCKER RINGS

FLUSH RING

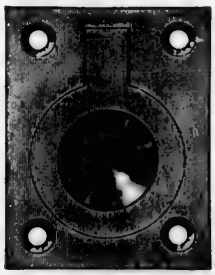


No. **1181¼, 1½** inch.



No. **1689**

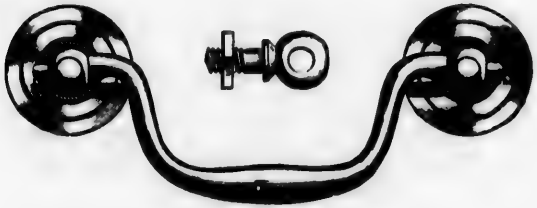
FLUSH RING



No. **1179**

No. **1181¼**—1½ inch, Brass Flush Rings, with Round Ring ..... per doz. $2.00
" **1181½**—1¾ " " " " " " ..... " 2.15
" **1179** —1 " " " " " " ..... " 1.45
" **1179** —1¼ " " " " " " ..... " 1.85
" **1179** —1½ " " " " " " ..... " 2.20
" **1689** —2½ " " Locker Rings, " " ..... " 3.20

# BRASS CASH BOX HANDLES



No. 5422

| | | | |
|---|---|---|---|
| Size | | 3 | 3½ inch. |
| No. 5422—Cast Brass, Polished and Lacquered | per doz. | $4.00 | 4.90 |

## BRASS LIFTING HANDLES



No. 8090

| | | | |
|---|---|---|---|
| Size | | 2¼ | 2¾ inch. |
| No. 8090—Cast Brass, Polished and Lacquered | per doz. | $1.80 | 2.30 |

## FLUSH DRAWER HANDLES

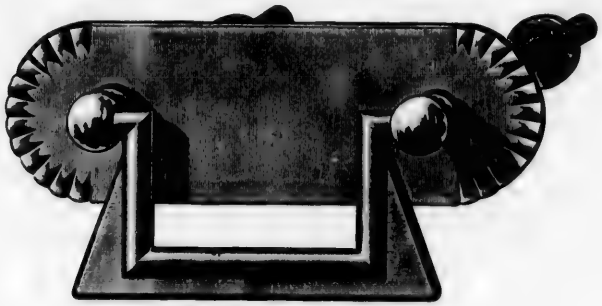


No. 5822

| | | |
|---|---|---|
| No. 5822—4¼ x 2½ inch Plate, Cast Brass, Polished and Lacquered | per doz. | $6.70 |
| " 8283—4 x 2 " " " " " | " | 4.90 |

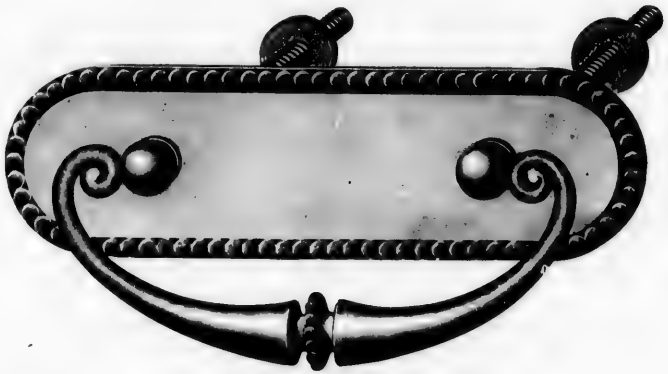
No. 8288 has Oval Handle in place of Square, as shown in cut.

# CABINET DRAWER PULLS



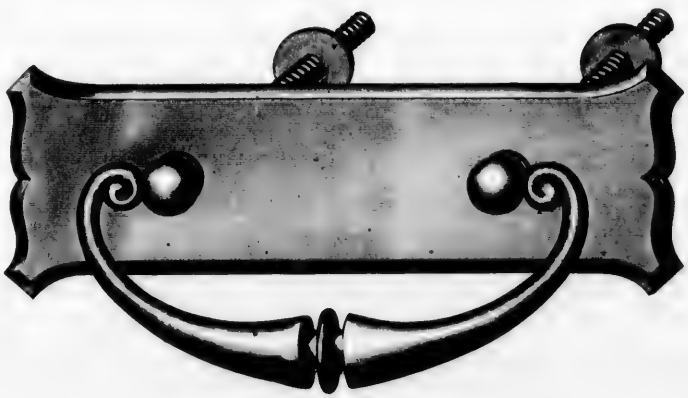
No. 01720

No. **01720**—1¼ x 3½ inch Plate, Bronze Metal.... ..... ..... .... ..... per pair $1.35



No. 01417

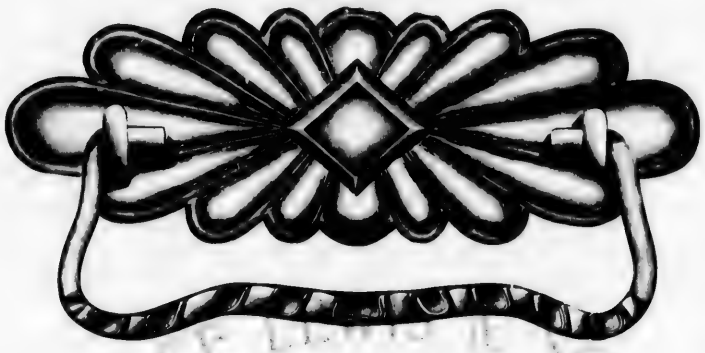
No. **01417**—1⅝ x 4¼ inch Plate, Bronze Metal..... ..... ... ..... . . per pair 2.25



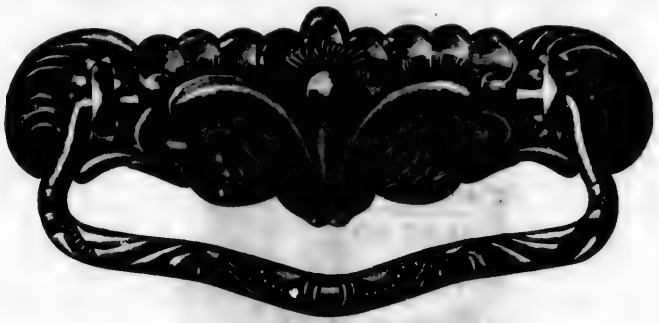
No. 2846½

No. **2846½**—1⅝ x 4½ inch Plate, Bronze Metal..... ..... per pair 2.25

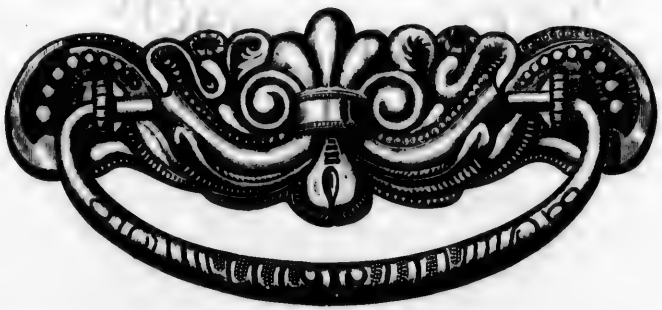
# CABINET DRAWER PULLS



No. **1452**—Brass or Oxidized ..... per doz. **$0.60**



No. **1188**—Brass or Oxidized ..... per doz. **0.75**



No. **1186**—Brass or Oxidized ..... per doz. **0.90**

# CABINET DRAWER PULLS



No. **1172**—Brass or Oxidized.....per doz. $0.90



No. **10006**—Brass.....per doz. 1.35



No. **10005**—Brass.....per doz. 3.00

# CABINET DRAWER PULLS

**Full size cuts.**



**No. 10000**

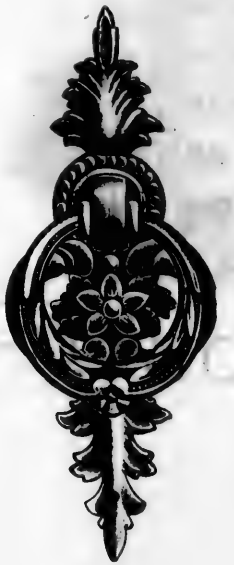


**No. 10001**

No. **10000**—Cast Brass..... per doz. **$1.90**
" **10001**—Cast Brass..... " 2.25



**Nos. 4436**



**4865**



**4775**

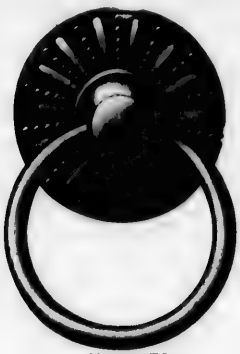


**4833**

| Nos. | 4436 | 4865 | 4775 | 4833 |
|---|---|---|---|---|
| Cast Brass, per doz. | $1.30 | 3.75 | 2.00 | 2.40 |

# RING DRAWER PULLS

Full size cuts.



No. 1170



No. 1184

No. 1170—Nickel or Gilt ..... per doz. $0.45
" 1184— " " ..... " 0.55



No. 28



No. 24



No. 4166

No. 28—Brass Box Ring, Dipped Base, ½ inch Ring ..... per doz. 0.40
" 24— " " Polished " ½ " " ..... " 0.50
" 4166—Cast Brass Pull, with Bolt and Nut ..... " 1.50

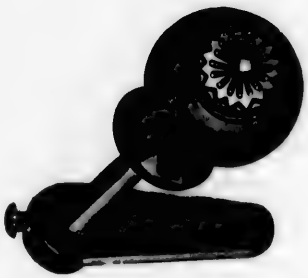
## DROP HANDLES



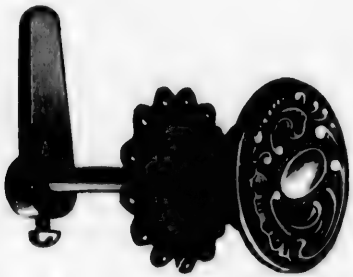
No. 069

No. 069—Ebony and Gilt, 1¼ inch Knob ..... per doz. 1.00
" 070— " " 1½ " " ..... " 1.00

# COMMODE BUTTONS

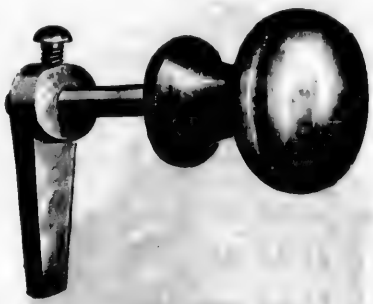


No. 321



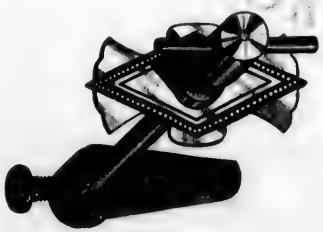
No. 1385

No. **321**—Ebony and Gilt ..... per doz. $0.65
" **1385**—Brass, 1¼ inch ..... " " 1.10



No. 2373

No. **2373**—Porcelain Knob, 1¼ inch, Brown, Black or White ..... per doz. 2.00



No. 922



No. 4645

No. **922** ..... per doz. 1.20
" **4645** ..... " 2.25

# CABINET ESCUTCHEONS

## CAST BRASS

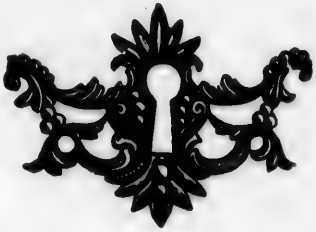
Full size cuts.



No. 1167



No. 1728



No. 1844

No. **1167**.....per doz. $1.50 | No. **1728**.....per doz. $1.50 | No. **1844**.....per doz. $1.50

## WROUGHT BRASS



No. 20



No. 713



No. 1412

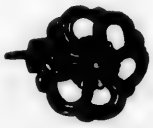


No. 558

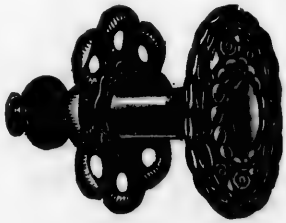
No. **20**.....per gross $1.10 | No. **1412**.....per gross $3.60
" **713**..... " 3.60 | " **558**..... " 3.60

## CABINET KNOBS AND PULLS

### CAST BRASS



No. 1129



No. 1193



No. 1824

No. **1129**.....per doz. $1.10 | No. **1193**.....per doz. $2.70 | No. **1824**.....per doz. $2.00

# CAST BRASS ORNAMENTS

**Full size cuts.**



**No. 4857**

No. 4857 ..... per doz. $1.00



**No. 4769**



**No. 4729**

No. 4769 ..... per doz. 2.10
" 4729 ..... " 2.40



**No. 4672**



**No. 4755**



**No. 4821**

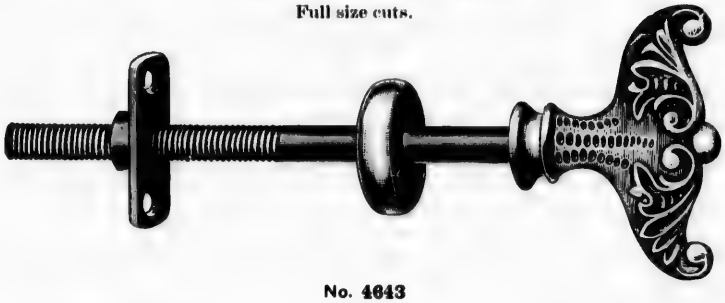


**No. 4664**

No. 4672 ..... per doz. 1.15
" 4664 ..... " 2.65
" 4755 ..... " 1.35
" 4821 ..... " 2.25

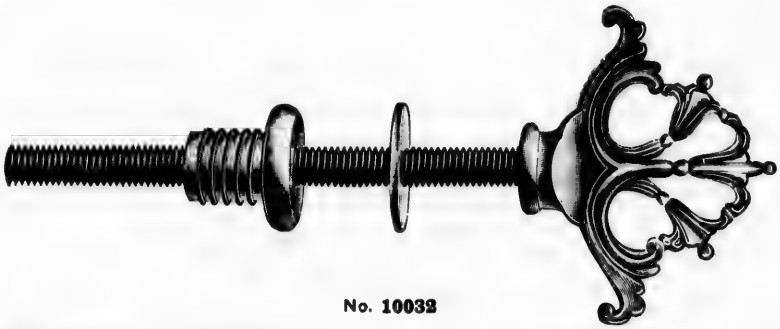
# MIRROR SCREWS

Full size cuts.



No. 4643

No. **4643**—Cast Brass, length of Rod 3½ inch ..... per doz. $2.65
" **4588**— " " " " 2½ " ..... " 2.25



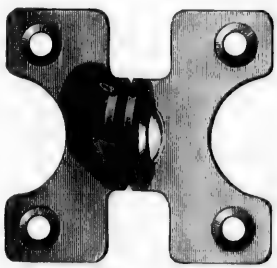
No. 10032

No. **10032**—Cast Brass, length of Rod 3½ inch ..... per doz. 2.70

## BRASS GLASS FRAME SCREWS

| Length of Rod | | 1½ | 2½ | 3 inch. |
|---|---|---|---|---|
| No. **580**—Cast Brass, Polished and Lacquered, ⅛ inch diameter | per doz. | $1.00 | .... | .... |
| " **2919**— " " " " ⅛ " " | " | .... | 1.30 | 1.50 |

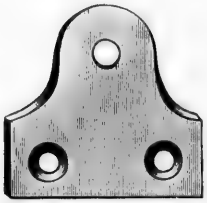
## MIRROR HINGES AND PLATES



No. 33



No. 34



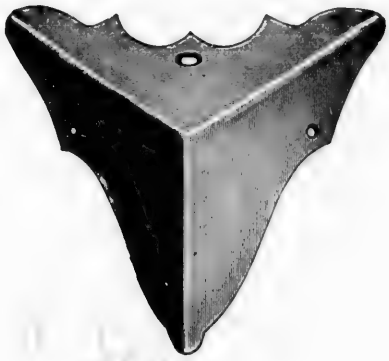
No. 2080

No. **33**—Friction Mirror Hinge, all Steel, with Double Springs ..... per doz. pair $1.00
" **34**— " " " " " " " ..... " " 1.25
" **35**— " " " " " " 2 x 2½ inch ..... " " 2.00
" **2080**—Brass Looking Glass Plates, 1¼ inch ..... per gross 2.30
" **2081**— " " " 1½ " ..... " 3.30

# BRASS BOX CORNERS AND STRAPS

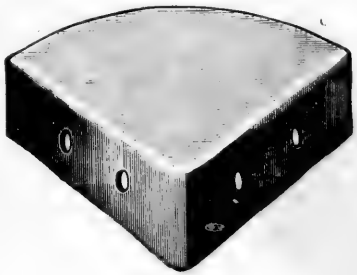


No. 480

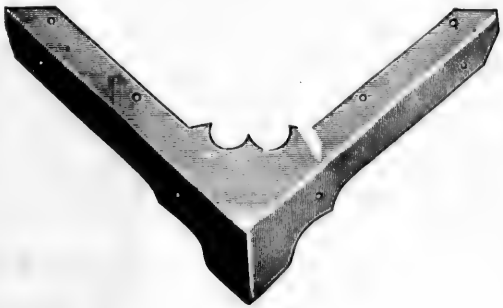


No. 482

No. **480**—$\frac{3}{4}$ x 1$\frac{1}{4}$ inch, Polished Brass Corner ..... per doz. $1.10
" **482**—1$\frac{1}{2}$ x 1$\frac{3}{4}$ " " " ..... " 1.80

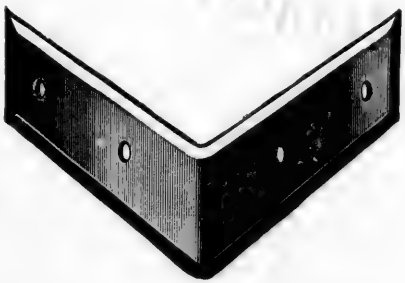


No. 484

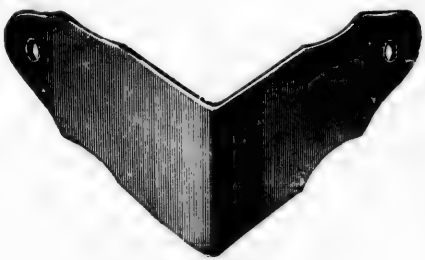


No. 481

No. **484**—$\frac{1}{2}$ x 1$\frac{1}{4}$ inch, Polished Brass Corner ..... per doz. 2.15
" **481**—$\frac{3}{4}$ x 2$\frac{1}{2}$ " " " ..... " 1.45



No. 472



No. 475

No. **472**—$\frac{1}{2}$ x 1$\frac{1}{2}$ inch, Brass Corner Strap, Bevelled ..... per doz. 2.70
" **475**—1 x 2 " " " ..... " 1.80
" **476**—1$\frac{1}{2}$ x 2$\frac{1}{2}$ " " " ..... " 2.70

# STEEL CORNER IRONS

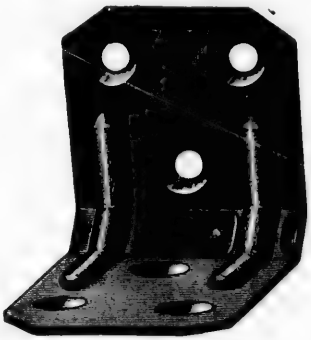


No. 999



No. 999C

| | | | |
|---|---|---|---|
| Size | ½ x 2½ | ¾ x 3½ | 1 x 5 inch. |
| No. 999—Bright Steel ..... per single doz. | $0.15 | 0.22 | 0.32 |
| Size | | ¾ x 2 | 1 x 2½ inch. |
| No. 999C—Brass Plated ..... per single doz. | | $0.70 | 0.80 |



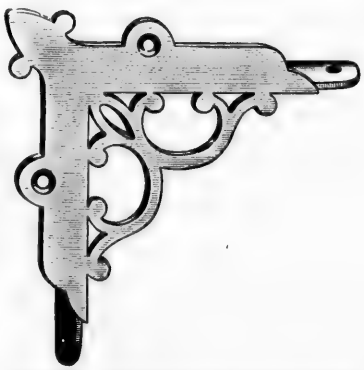
No. 997½



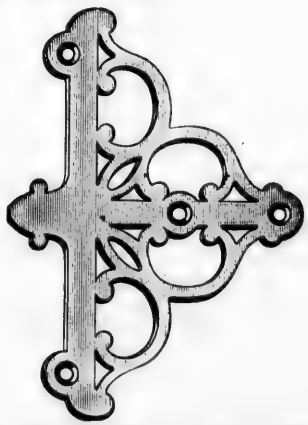

No. 996

| | |
|---|---|
| No. 997½—Plain Steel, 1½ x 1⅝ inch. ..... per doz. | $0.30 |
| " 996 — " 1½ x 4½ " ..... " | 0.75 |

## SCREEN DOOR AND WINDOW BRACKETS



No. 202. Half size cut, showing Corner.

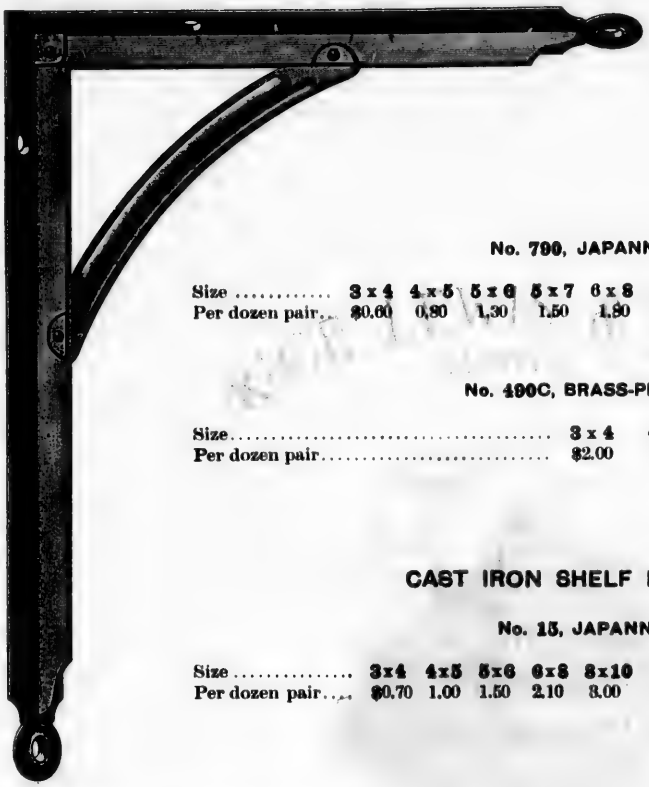


No. 202. Half size cut, showing Centre.

| | |
|---|---|
| No. 202—Screen Door Brackets, Amber Bronzed, 4 Corner Brackets, with 2 Centre Pieces to the Set, with Screws ..... per dozen sets | 5.00 |
| " 100—Window Screen Brackets, 4 Corner Brackets, as No. 202, 3 x 3 in. for Window Screens. " " | 2.00 |

No. 202, quarter dozen; No. 100, half-dozen sets in a box.

# WROUGHT STEEL SHELF BRACKETS



### No. 790, JAPANNED

| Size | 3 x 4 | 4 x 5 | 5 x 6 | 5 x 7 | 6 x 8 | 7 x 9 | 8 x 10 | 10 x 12 | 12 x 14 inch. |
|---|---|---|---|---|---|---|---|---|---|
| Per dozen pair | $0.60 | 0.90 | 1.30 | 1.50 | 1.80 | 2.20 | 2.50 | 3.60 | 5.40 |

### No. 490C, BRASS-PLATED

| Size | 3 x 4 | 4 x 5 | 5 x 6 | 6 x 8 | 8 x 10 inch. |
|---|---|---|---|---|---|
| Per dozen pair | $2.00 | 2.40 | 3.00 | 4.90 | 5.40 |

## CAST IRON SHELF BRACKETS

### No. 15, JAPANNED

| Size | 3x4 | 4x5 | 5x6 | 6x8 | 8x10 | 10x12 | 12x14 | 14x18 | 16x20 inch. |
|---|---|---|---|---|---|---|---|---|---|
| Per dozen pair | $0.70 | 1.00 | 1.50 | 2.10 | 3.00 | 4.20 | 6.25 | 10.00 | 12.00 |



PAT. APR. 9, 1889. NOV. 6, 1888. APR. 3, 1888.

## BRADLEY'S STEEL WIRE BRACKETS

### JAPANNED

| Size | 4 x 5 | 5 x 7 | 6 x 8 | 7 x 9 | 8 x 10 | 10 x 12 inch. |
|---|---|---|---|---|---|---|
| Per dozen pair | $0.70 | 1.30 | 1.60 | 2.00 | 2.30 | 3.20 |

## TINNED ANGLE BRACKETS

| Size | 3 x 4 | 4 x 5 | 5 x 7 inch. |
|---|---|---|---|
| Per single dozen | $0.30 | 0.50 | 0.60 |

Brackets 3x4 and 4x5, one dozen; 5x6 to 7x9, half-dozen; larger sizes, quarter dozen pairs in a box.

# FLOWER POT BRACKETS



No. 1760

No. **1760**—5 inch Arm, 4 inch Shelf, Maroon Finish.....per doz. $2.00

One dozen in a box.



No. 2000

No. **2000**—7 inch Arm, 4½ inch Shelf, Maroon Finish.....per doz. 3.50

One quarter dozen in a box, with Screws.



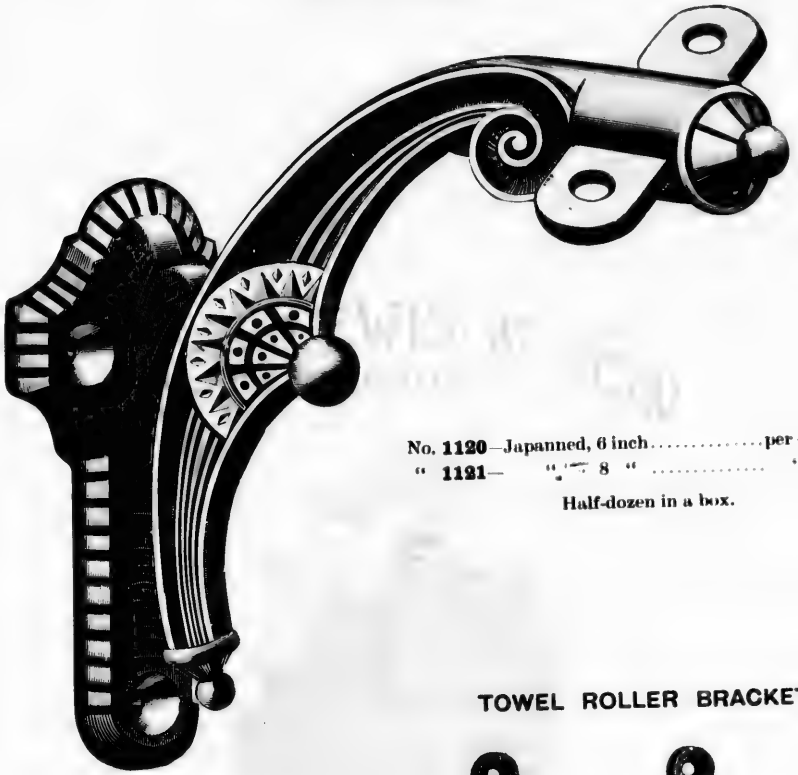
No. 1824

No. **1824**—6 inch Arm, 5½ inch Shelf, Maroon Finish.....per doz. 5.20

One quarter dozen in a box, with Screws.

# HAND RAIL BRACKETS

## FOR BOX STAIRS



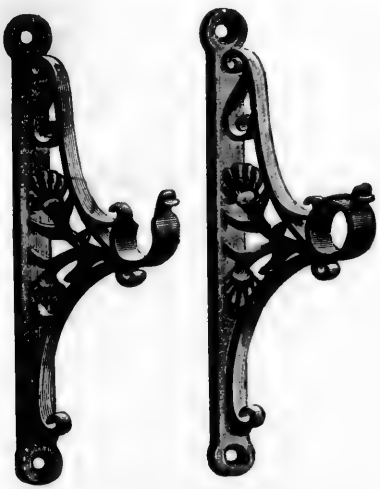
No. **1120**—Japanned, 6 inch.....per doz. $2.20
" **1121**— " 8 " ..... " 2.40

Half-dozen in a box.

## TOWEL ROLLER BRACKETS



No. **55**. Half size cut.



No. **2**. Half size cut.

No. **55**—Hand Rail Brackets..... .per doz. $1.50 | No. **2**—Towel Roller Brackets, Coppered, per doz. pairs 2.40

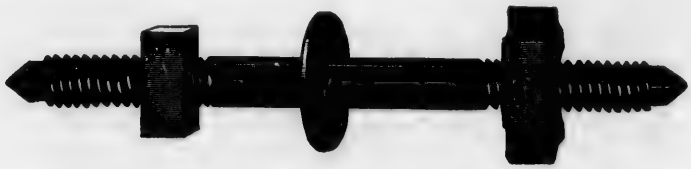
One dozen in a box.

# WROUGHT HAND RAIL SCREWS



**No. 51.** Full size cut of 4½ inch.

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. **51**—$\frac{5}{16}$ | inch, | Iron, | 4½ | inches | long, | 1 | Nut, | Gimlet | Pointed | Screw | per gross $5.00 |
| " **51**—$\frac{5}{16}$ | " | Iron, | 5 | " | " | 1 | " | " | " | " | " 5.40 |



**Nos. 52 and 62.** Full size cut of 4½ inch, No. 52.

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. **52**—$\frac{5}{16}$ | inch, | Iron, | 4 | inches | long, | 2 | Nuts | | | | per gross 5.10 |
| " **52**—$\frac{5}{16}$ | " | Iron, | 4½ | " | | 2 | " | | | | " 5.40 |
| " **52**—$\frac{5}{16}$ | " | Iron, | 5 | " | | 2 | " | | | | " 6.20 |
| " **62**—$\frac{3}{8}$ | " | Iron, | 6 | " | | 2 | " | | | | " 8.40 |



**No. 72.** Full size cut of 4½ inch.

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. **72**—$\frac{7}{16}$ | inch, | Iron, | 4 | inches | long, | 2 | Nuts, | Swelled | Centre | | per gross 8.40 |
| " **72**—$\frac{7}{16}$ | " | Iron, | 4½ | " | | 2 | " | " | | | " 9.00 |
| " **72**—$\frac{7}{16}$ | " | Iron, | 5 | " | | 2 | " | " | | | " 9.50 |

Quarter gross in a box.

# CASTERS



PLATE CASTER



PHILADELPHIA PATTERN

## PLATE CASTERS

| Nos. | | | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|---|---|
| Iron Horn, Iron Wheel | per set (4) | | $0.12 | 0.14 | 0.16 | 0.18 | 0.22 | 0.27 |
| " " Porcelain Wheel | " | " | 0.14 | 0.15 | 0.16 | 0.19 | 0.24 | .... |
| Brass Horn, Brass Wheel | " | " | 0.33 | 0.41 | 0.51 | 0.64 | 0.72 | 0.87 |
| " " Porcelain Wheel | " | " | 0.24 | 0.28 | 0.34 | 0.40 | 0.44 | 0.52 |

## PHILADELPHIA PATTERN

| Nos. | | | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|---|---|
| Iron Plate, Horn and Wheel | per set (4) | | $0.12 | 0.13 | 0.15 | 0.17 | 0.19 | 0.22 |
| " " and Horn Porcelain Wheel | " | " | 0.14 | 0.15 | 0.17 | 0.19 | 0.21 | 0.24 |
| " " " Lignum-vitæ Wheel | " | " | 0.16 | 0.17 | 0.19 | 0.22 | 0.24 | 0.26 |
| " " " Brass Wheel | " | " | 0.25 | 0.28 | 0.34 | 0.42 | 0.44 | 0.58 |
| " " Brass Horn and Wheel | " | " | 0.37 | 0.42 | 0.51 | 0.66 | 0.70 | 0.88 |

## SHALLOW SOCKET AND SCREW CASTERS



No. **120**, 1½ inch. Full size cut.



No. **5516**, 1 inch. Full size cut.

| | | | | | |
|---|---|---|---|---|---|
| Diameter of Socket | ⅞ | 1 | 1⅛ | 1¼ | inch. |
| No. **120**—Brass Socket, Horn and Wheel, per set (4) | $0.48 | 0.58 | 0.72 | 0.87 | |
| " **122**— " " " Porcelain " " " | 0.36 | 0.43 | 0.57 | 0.65 | |
| Diameter of Plate | ⅞ | 1 | 1⅛ | 1¼ | inch. |
| No. **5516**—Brass Horn, Vitrified Wheel, per set (4) | $0.52 | 0.58 | 0.66 | 0.76 | |
| Diameter | ⅞ | 1 | 1⅛ | 1¼ | inch. |
| No. **5577½**—Brass Caster Rings, per doz. sets | $1.30 | 1.45 | 1.75 | 2.00 | |

# DEEP SOCKET CASTERS



| | | | | |
|---|---|---|---|---|
| Diameter of Socket | | 1¼ | 1⅜ | 1½ inch. |
| No. **5503**—Brass Socket and Horn Vitrified Wheel | per set (4) | $1.15 | 1.35 | 1.65 |

## STANDARD BALL-BEARING CASTERS



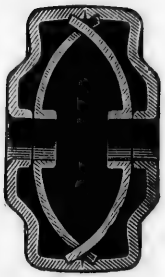
STEM CASTER



STEM SOCKET



OBLONG PLATE



SECTION OF WHEEL

### STANDARD STEM CASTERS

| Nos. | | 3 | 5 | 7 | 8 |
|---|---|---|---|---|---|
| Size of Wheel | | 1 | 1¼ | 1½ | 1⅝ inch. |
| Style **S**—Steel Horn and Wheel | per set (4) | $0.22 | 0.26 | 0.35 | 0.41 |
| " **L**— " " Lignum-vitæ Wheel | " | 0.22 | 0.26 | 0.35 | 0.41 |

Size of Small Socket, fitting Nos. 3 and 5, ⅞ inch; Nos. 7 and 8, 1 1/16 inch.

### STANDARD OBLONG PLATE CASTERS

| Nos. | | 3 | 5 | 7 | 8 |
|---|---|---|---|---|---|
| Size of Wheel | | 1 | 1¼ | 1½ | 1⅝ inch. |
| Style **S**—Steel Plate and Horn Steel Wheel | per set (4) | $0.23 | 0.31 | 0.48 | 0.67 |
| " **L**— " " Lignum-vitæ Wheel | " | 0.23 | 0.31 | 0.48 | 0.67 |

# GEM CASTERS



No. 333



No. 015



No. 0201

| | | | |
|---|---|---|---|
| No. **333**—Stem Plate, Iron Wheel | per set (4) | | $0.65 |
| " **334**— " " Lignum-vitæ Wheel (size as 333) | " | | 0.70 |
| " **629**— " " Iron Wheel, Plate 2½ inch, Wheel 2 inch | " | | 1.15 |
| " **015**—1 inch, Brass Socket, Brass Wheel | " | | 3.00 |
| " **0231**—1½ " " " " " | " | | 3.75 |
| " **0201**—1½ " " Square Socket, Brass Wheel | " | | 3.25 |

**Can be supplied with Hard Rubber Tires to order.**

## BELL METAL GLASS BALL CASTERS



PLATE



SHANK

| Nos. | | **2** | **3** | **4** |
|---|---|---|---|---|
| Size of Ball | | 1¼ | 1½ | 2½ inch. |
| With Plate | per set (4) | $1.55 | 1.95 | 3.90 |
| With Shank | " | 1 55 | 1.95 | 3.00 |

# YALE CASTERS



No. 101, ROUND PLATE

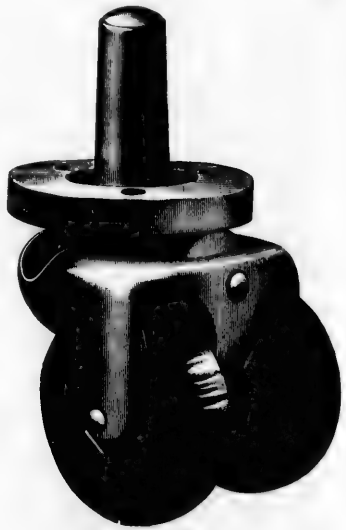


No. 123, STEM PLATE

| | | | |
|---|---|---|---|
| No. 101—Round Plate, Iron Wheels, cut full size | per set (4) | $0.83 |
| " 103—Stem " " " " size as 101 | " | 0.83 |
| " 107—Round " Lignum-vitæ Wheels, size as 101 | " | 0.90 |
| " 121— " " Iron Wheels, size as 123 | " | 0.90 |
| " 123—Stem " " " | " | 0.90 |
| " 127—Round " Lignum-vitæ Wheels, size as 123 | " | 0.98 |
| " 129—Stem " " " " " " | " | 0.98 |



No. 152, OBLONG PLATE



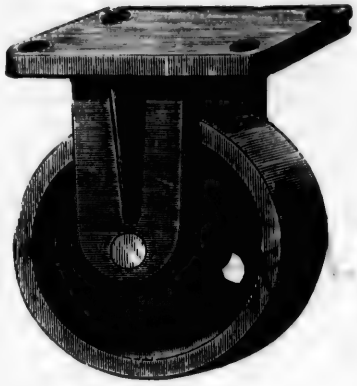
No. 159, STEM PLATE

| | | |
|---|---|---|
| No. 151—Round Plate, Iron Wheels, cut full size | per set (4) | 0.98 |
| " 152—Oblong " " " size as 151 | " | 0.98 |
| " 153—Stem " " " " " | " | 0.98 |
| " 157—Round " Lignum-vitæ Wheels, size as 159 | " | 1.05 |
| " 159—Stem " " " " | " | 1.05 |
| " 181—Round " Iron Wheels, Plate 2 inch, Wheel 1½ inch | " | 1.05 |
| " 183—Stem " " " " 2 " " 1½ " | " | 1.05 |
| " 189— " " Lignum-vitæ Wheels, Plate 2 inch, Wheel 1½ inch | " | 1.13 |
| " 201—Round " Iron Wheels, Plate 2½ inch, Wheel 2 inch | " | 1.13 |
| " 211— " " " " " 2⅝ " " 2⅛ " | " | 1.50 |
| " 232—Oblong " " " " 3½ x 4 inch, Wheel 2⅜ inch | " | 2.25 |
| " 332— " " " " 3½ x 4½ " " 3¼ " | " | 2.63 |
| " 402— " " " " " 4½ x 5½ " " 4 " | " | 6.75 |

No. 1—
" 2—

No. 237—
" 238—
" 437—
" 637—
" 837—
" 937—
" 1037—

# STORE TRUCK CASTERS



No. 1



No. 2

| | | |
|---|---|---|
| No. 1—3½ inch, Single Wheel, Stationary | each | $0.50 |
| " 2—3½ " " " Swivel | " | 0.62 |

## GEM CASTERS



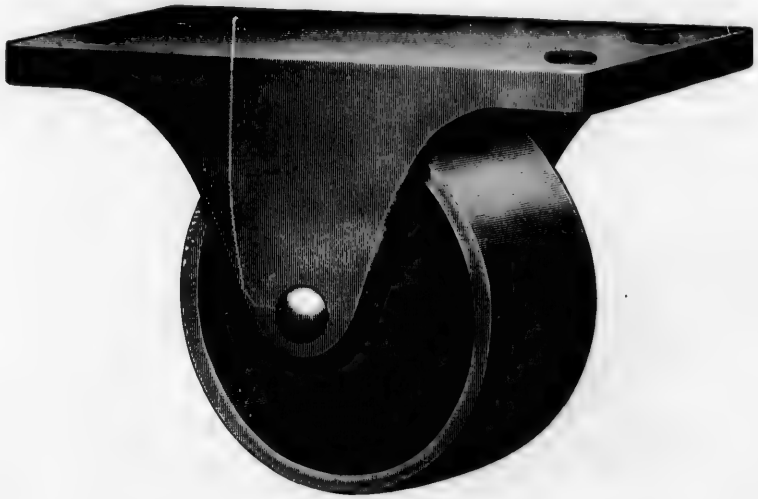

| | | |
|---|---|---|
| No. 237—Oblong Plate, Iron Wheel, Plate 1¼ x 1¼, Wheel 1¼ inch | per set (4) | 0.45 |
| " 238— " Lignum-vitæ Wheel, Plate 1¼ x 1¼, Wheel 1¼ inch | " | 0.50 |
| " 437— " Iron Wheel, Plate 2 x 2⅛, Wheel 1⅝ inch | " | 0.85 |
| " 637— " " " " 2¼ x 2¼, " 2 inch | " | 1.15 |
| " 837— " " " Total Height 3⅜ inch, Wheel 2¼ inch | " | 2.70 |
| " 937— " " " " 4¼ " " 3⅛ " | " | 3.60 |
| " 1037— " " " " 5¼ " " 4 " | " | 4.50 |

# GEM WIDE WHEEL CASTERS



| | | | |
|---|---|---|---|
| No. 1—Plate 3½ inch, Wheel 2½ inch diam. x 1¼ inch Face, Height 2½ inches | per set (4) | $1.60 |
| " 2— " 3 " " 1¾ " x 1¼ " " 2¼ " | " | 0.80 |

## RUBBER WHEEL CASTERS



### STATIONARY ROLLERS

| | | |
|---|---|---|
| 3 inch, with Clark's Soft Rubber Wheels | per set (4) | 4.50 |

# BEDSTEAD CASTERS

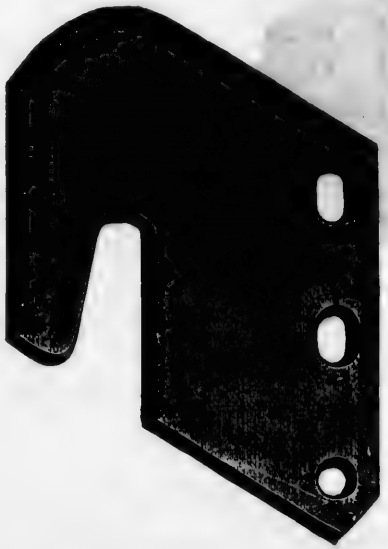


No. 2, 1⅝ inch. Half size cut.

| Size | | 1⅝ | 1⅝ | 2 | 2 inch. |
|---|---|---|---|---|---|
| Nos | | 1 | 2 | 1 | 2 |
| Iron Wheel | per set (4) | $0.14 | 0.16 | 0.20 | 0.21 |
| Maple " | " | 0.14 | 0.16 | 0.20 | 0.21 |
| Porcelain Wheel | " | 0.16 | 0.18 | 0.22 | 0.24 |

Six sets in a package.

# BEDSTEAD FASTENERS



No. 5. Full size cut.



No. 3. Half size cut.

No. 5—Wrought Bedstead Fasteners, with 1¼ Post and ⅝ Rail Pins ..... per set (4) $0.15
" 3—Cast " " " Horseshoe Pattern ..... " 0.15

No. 5, 100 sets, and No. 3, 50 sets, in a case.

# BRASS SCREW HOOKS

Full size cuts.



No. 19



No. 22

Brass Wire, Polished and Lacquered.

| Nos. | 18 | 20 | 21 | 22 | 23 | 24 | |
|---|---|---|---|---|---|---|---|
| Size | ½ | ⅝ | ¾ | 1 | 1¼ | 1½ | inch. |
| Per gross | $0.90 | 1.00 | 1.20 | 1.40 | 1.75 | 2.10 | |

One gross in a box.

## BRASS CUP HOOKS



No. 0



No. 1



No. 3

Brass Wire, Polished and Lacquered.

| Nos | 000 | 00 | 0 | 0½ | 1 | 2 | 3 | 4 | |
|---|---|---|---|---|---|---|---|---|---|
| Size | ⅛ | ⅛ | ¼ | ¼ | 1 | 1⅛ | 1¼ | 1½ | inch. |
| Per gross | $1.00 | 1.10 | 1.20 | 1.30 | 1.50 | 2.00 | 2.40 | 3.00 | |

Half gross in a box.

## BRASS SCREW RINGS



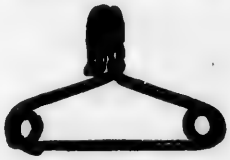




| Nos. | 37 | 36 | 35 | 34 | |
|---|---|---|---|---|---|
| Size of Ring | ¾ | ⅞ | 1 | 1¼ | inch. |
| Per gross | $1.25 | 1.40 | 1.50 | 1.90 | |

One gross in a package.

## DRAPERY HOOKS



No. 0321

No. 0321 –Brass-Plated ..... per gross $0.60

One gross in a package.

# SQUARE CORNER SCREW HOOKS



2 inch. 1¾ inch. 1½ inch.

## BRIGHT IRON SQUARE CORNER SCREW HOOKS

| Length | 1¼ | 1½ | 1¾ | 2 | 2¼ | 2½ | 2¾ inch. |
|---|---|---|---|---|---|---|---|
| Per gross | $0.40 | 0.53 | 0.67 | 0.80 | 1.00 | 1.40 | 1.80 |

One gross in a package.

## HOOKS AND EYES



### RIGHT OR LEFT HAND

| Size | | ¾ | 1½ | 2 | 2½ | 3 inch. |
|---|---|---|---|---|---|---|
| No. 50—Malleable Iron, Oval, Coppered | per gross | .... | 0.75 | 1.05 | 1.50 | 2.10 |
| " 61—Brass, Light, Double Convex | " | $1.50 | .... | .... | .... | .... |
| " 60— " Heavy " " | " | .... | 2.10 | 2.85 | .... | .... |

One gross in a box. No. 50 Hooks have Malleable Cast Eyes.

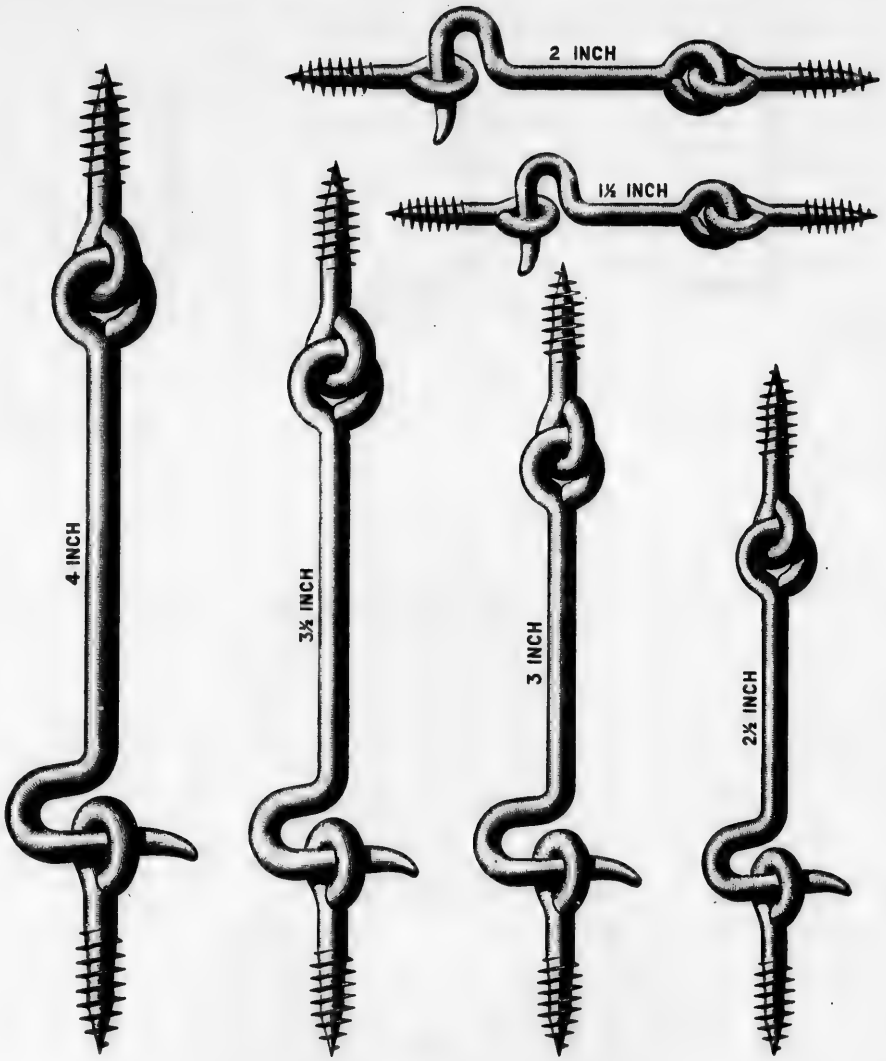
## BRASS CABIN DOOR HOOKS



| | | |
|---|---|---|
| No. 72—2½ inch, Cast Brass, Polished and Lacquered | per doz. | $2.25 |
| " 72—3 " " " " | " | 2.60 |
| " 72—3½ " " " " | " | 3.00 |
| " 72—4 " " " " | " | 3.60 |
| " 773—2½ " " Heavy, with Square Plates, Polished and Lacquered | " | 4.15 |
| " 773—4 " " " " " " | " | 4.85 |
| " 773—5 " " " " " " | " | 5.40 |

Two dozen in a box.

# WIRE GATE HOOKS AND EYES




## BRIGHT IRON GATE HOOKS AND EYES

| Size | 1½ | 2 | 2½ | 3 | 3½ | 4 | 4½ | 5 | 5½ | 6 inch. |
|---|---|---|---|---|---|---|---|---|---|---|
| Price ..... per gross | $1.40 | 1.70 | 2.10 | 2.30 | 2.80 | 3.35 | 4.00 | 4.80 | 5.65 | 6.50 |

## BRASS GATE HOOKS AND EYES

| Size | 1½ | 2 | 2½ | 3 | 3½ | 4 | 4½ | 5 | 5½ | 6 inch. |
|---|---|---|---|---|---|---|---|---|---|---|
| Price ..... per gross | $2.70 | 3.60 | 4.75 | 6.55 | 8.35 | 10.45 | 12.70 | 15.20 | 16.00 | 16.80 |

1½ to 2½ inch one gross, larger sizes half gross in a box.

# WIRE SCREW HOOKS




RICE LEWIS & SON LIMITED TORONTO, ONT.

SUIT M

## BRIGHT IRON SCREW HOOKS

| Nos. | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Price | per gross | $0.25 | 0.27 | 0.33 | 0.38 | 0.50 | 0.60 | 0.75 | 0.85 | 1.00 | 1.30 | 1.65 |

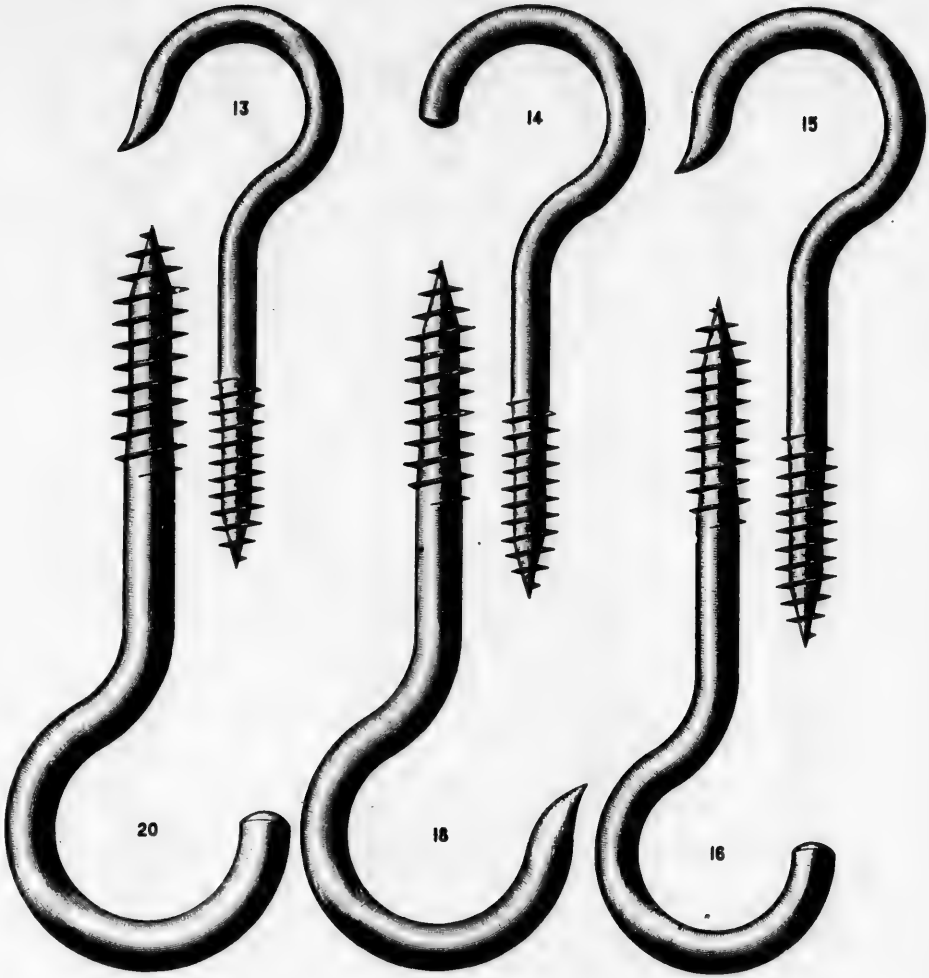
## BRASS SCREW HOOKS

| Nos. | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Price | per gross | $0.40 | 0.45 | 0.65 | 0.85 | 1.15 | 1.50 | 2.00 | 2.50 | 3.20 | 4.10 | 5.10 |

**Sharp Points only kept in stock. Blunt Points to order.**

**One gross in a box.**

# WIRE SCREW HOOKS




SUIT M

## BRIGHT IRON SCREW HOOKS

| Nos | | 13 | 14 | 15 | 16 | 18 | 20 |
|---|---|---|---|---|---|---|---|
| Price | per gross | $2.00 | 2.40 | 2.90 | 3.50 | 4.25 | 5.70 |

## BRASS SCREW HOOKS

| Nos | | 13 | 14 | 15 | 16 | 18 | 20 |
|---|---|---|---|---|---|---|---|
| Price | per gross | $6.30 | 7.40 | 8.80 | 10.60 | 13.40 | 16.90 |

**Sharp Points only kept in stock. Blunt Points to order.**

**Half gross in a box.**

# WIRE SCREW EYES




SUIT A

## BRIGHT IRON SCREW EYES

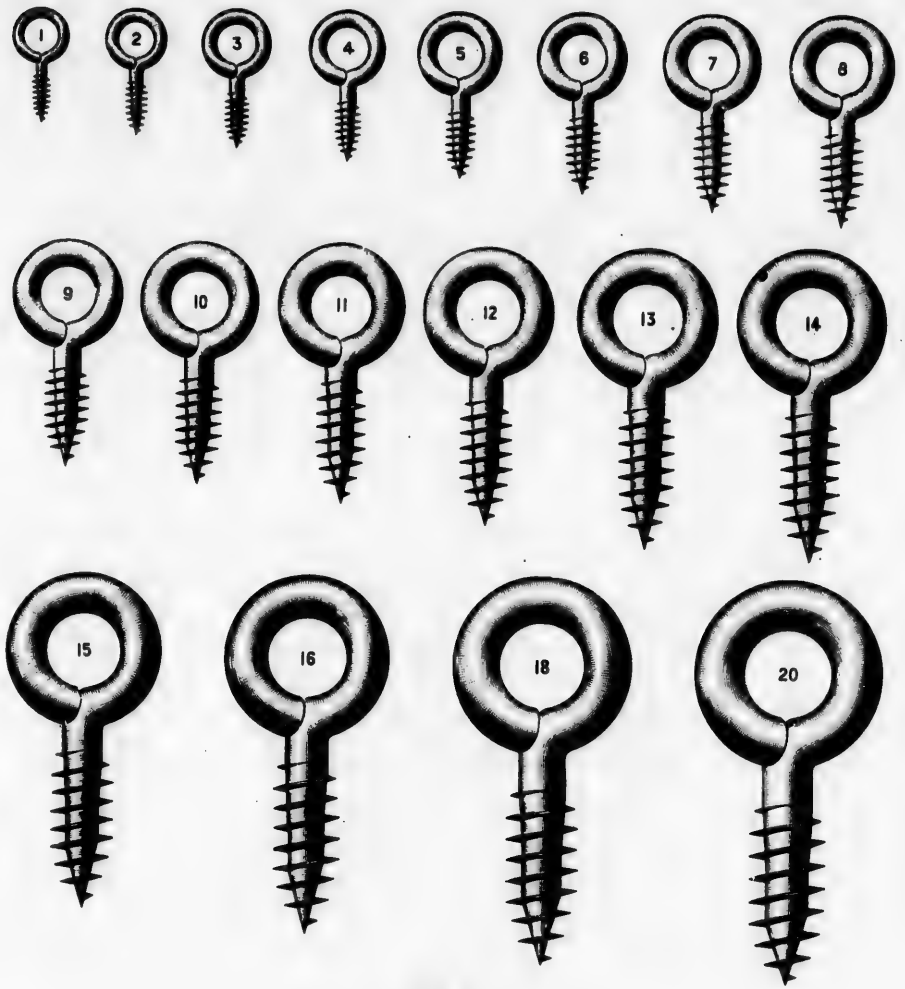
| Nos. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| Price ..... per gross | $0.13 | 0.15 | 0.18 | 0.24 | 0.28 | 0.33 | 0.40 | 0.45 | 0.50 |
| Nos. | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 18 | 20 |
| Price ..... per gross | $0.60 | 0.70 | 0.90 | 1.10 | 1.27 | 1.45 | 1.80 | 2.30 | 3.15 |

## BRASS SCREW EYES

| Nos. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| Price ..... per gross | $0.20 | 0.25 | 0.30 | 0.40 | 0.55 | 0.70 | 0.90 | 1.15 | 1.45 |
| Nos. | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 18 | 20 |
| Price ..... per gross | $1.85 | 2.25 | 2.75 | 3.30 | 4.00 | 4.55 | 5.40 | 7.20 | 9.30 |

Nos. 1 to 14 one gross in a box, Nos. 15 to 20 half gross.

# WIRE SCREW EYES




SUIT B

## BRIGHT IRON SCREW EYES

| Nos | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| Price per gross | $0.16 | 0.18 | 0.22 | 0.27 | 0.33 | 0.40 | 0.45 | 0.50 | 0.60 |
| Nos | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 18 | 20 |
| Price per gross | $0.75 | 0.85 | 1.00 | 1.20 | 1.40 | 1.70 | 2.00 | 2.60 | 3.75 |

## BRASS SCREW EYES

| Nos | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| Price per gross | $0.25 | 0.30 | 0.40 | 0.53 | 0.70 | 0.90 | 1.20 | 1.50 | 1.80 |
| Nos | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 18 | 20 |
| Price per gross | $2.20 | 2.80 | 3.50 | 4.20 | 5.00 | 5.60 | 6.40 | 8.40 | 11.60 |

Nos. 1 to 14 one gross in a box, Nos. 15 to 20 half gross.

# WIRE SCREW EYES




SUIT C

## BRIGHT IRON SCREW EYES

| Nos. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| Price per gross | $0.18 | 0.20 | 0.24 | 0.30 | 0.37 | 0.45 | 0.53 | 0.60 | 0.70 |
| Nos. | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 18 | 20 |
| Price per gross | $0.80 | 1.00 | 1.20 | 1.40 | 1.60 | 1.90 | 2.30 | 2.90 | 4.00 |

## BRASS SCREW EYES

| Nos. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| Price per gross | $0.30 | 0.40 | 0.50 | 0.60 | 0.80 | 1.00 | 1.40 | 1.80 | 2.30 |
| Nos. | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 18 | 20 |
| Price per gross | $2.90 | 3.50 | 4.20 | 5.00 | 5.80 | 6.60 | 7.40 | 9.40 | 12 60 |

## STOVEPIPE SCREW EYES

| Nos. | | | 5 | 6 | 7 | 8 | |
|---|---|---|---|---|---|---|---|
| Length | | | 1½ | 2 | 2½ | 3 | inch. |
| Price | per gross | | $0.40 | 0.52 | 0.67 | 0.95 | |

Nos. 1 to 14 one gross in a box, Nos. 15 to 20 half gross.

# CHANDELIER HOOKS



No. 410



No. 220



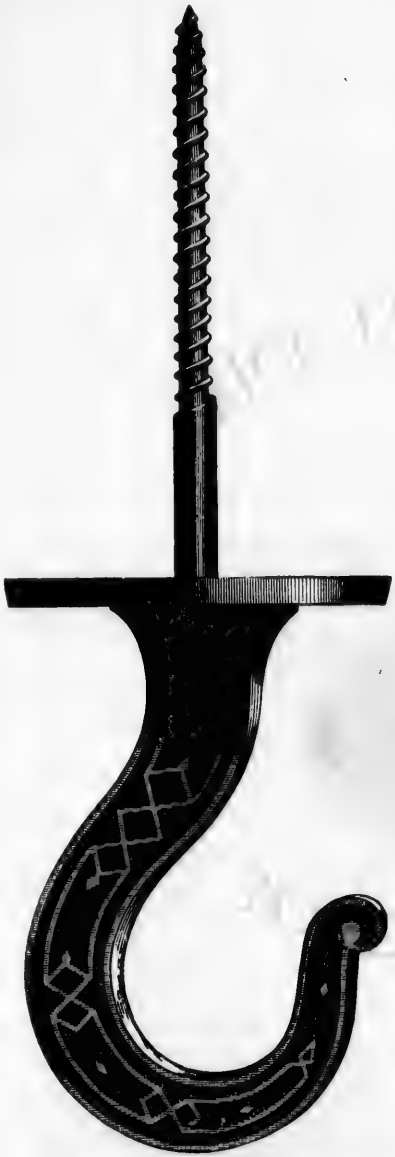
No. 2

## LAMP HOOKS

No. 2—1¼ in., Japanned . . per gross $2.00

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| No. | 220— | 4 | inch, | Amber | Bronzed, | Steel | Screw | per doz. | $1.05 |
| " | 220— | 6 | " | " | " | " | " | " | 1.25 |
| " | 410— | 4 | " | " | " | " | " | " | 0.85 |
| " | 410— | 6 | " | " | " | " | " | " | 0.95 |
| " | 410— | 8 | " | " | " | " | " | " | 1.10 |
| " | 410— | 10 | " | " | " | " | " | " | 1.25 |

# CHANDELIER HOOKS



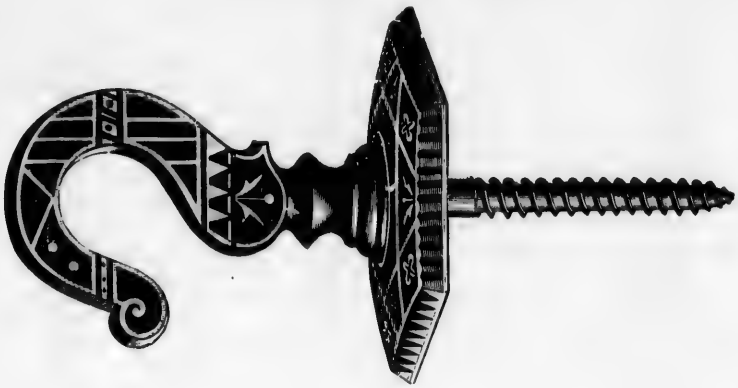
No. **240**, **4** inch.



No. **270**

| Size | **3** | **4** | **6** | **8** | **10** | **12** inch. |
|---|---|---|---|---|---|---|
| No. **240**—Amber Bronzed, with Base, Steel Screw.....per doz. | $0.90 | 1.20 | 1.45 | 1.80 | 2.15 | 2.50 |
| " **270**— " " " " " ..... " | .... | 1.60 | 1.80 | .... | .-.. | .... |

# CHANDELIER HOOKS



No. T450—2½ inch, Amber Bronzed, with Base ..... per doz. $0.75
" T450—4 " " " ..... " 1.05

TO SCREW TO GAS PIPE



No. 260



No. 290, ⅜ inch. Full size cut.

No. 260—⅜ inch, Amber Bronzed ..... per doz. $0.65
" 260—½ " " ..... " 0.75
" 290—⅜ " " ..... " 1.80
" 290—½ " " ..... " 1.90

# BIRD CAGE HOOKS



One-third size cut.

No. **81**—Amber Bronzed.....per doz. **$1.50**



**No. 25.** Half size cut.

No. **25**—Amber Bronzed, Steel Screw.....per doz. **0.80**



**No. 33.** Half size cut.

No. **33**—Amber Bronzed, Steel Screw.....per doz. **1.00**



No. **116**—Amber Bronzed, packed with Screws.....per doz. **2.30**

# BIRD CAGE HOOKS




**No. 3024½**
9 inch, Amber Bronzed, to Swing.
Per dozen, $2.00.

**No. 3024**
9 inch, Amber Bronzed, to Screw.
Per dozen, $1.60.

## BIRD CAGE SPRINGS



No. **10**—Brass-Plated, per doz. $0.35
" **20**—With Chain, " 1.80

# CLOTHES LINE HOOKS

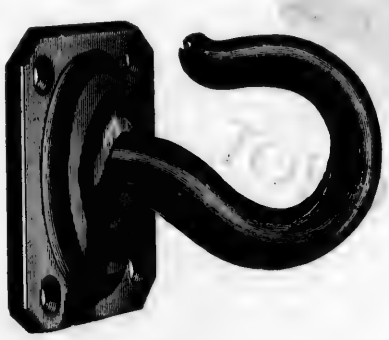


No. 3

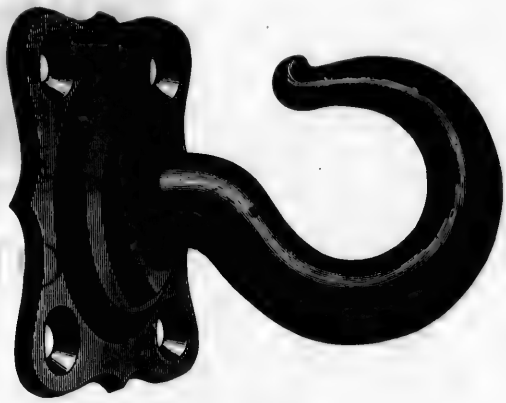


No. 25

| | | |
|---|---|---|
| No. 3—Japanned | per doz. | $0.50 |
| " 25—Galvanized | " | 1.00 |



No. 2



Nos. 1 and 21

| | | |
|---|---|---|
| No. 2—Japanned | per doz. | $0.60 |
| " 1— " | " | 0.70 |
| " 21—Galvanized | " | 1.30 |

One dozen in a box.

# "SELF-LOCK" PULLEY

**For Clothes Lines, Hammocks, Lawn Tennis Nets, Tents, Awnings, etc.**



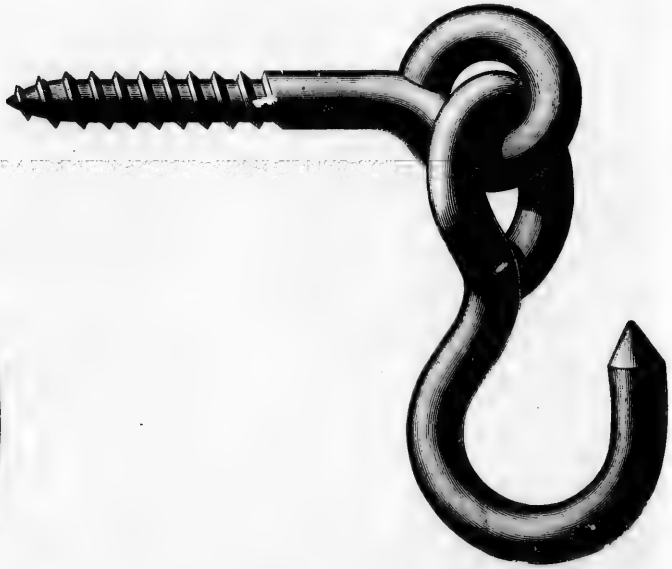

**No. 1.** Galvanized, Single Eye. For Rope ¾ inch diameter.....per doz. $1.80

The line being drawn sufficiently taut, the cam sheave acts as a "choke" against back movement and the hold is absolutely secure without tying the line.

## WROUGHT HAMMOCK HOOKS



No. 17



No. 47

**No. 17**—Galvanized, with Plate, Wrought Iron Hooks ¾ inch diameter.....per doz. $1.05
" **47**— " " Screw, " " ¾ " " ..... " 1.00

One dozen in a box.

# HAMMOCK HOOKS

## PIGOTT'S PATENT




**No. 258.** Full size cut.

No. **258**—Tinned, with Plate.....per doz. $2.30




**No. 268.** Full size cut.

No. **268**—Tinned, with Wrought Screw.....per doz. 2.20

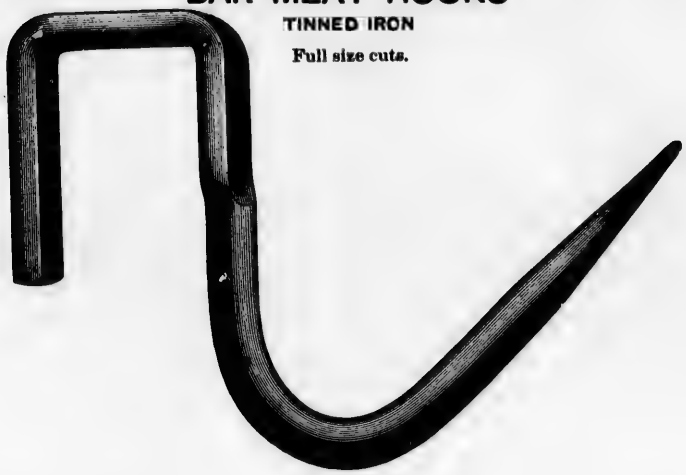
One dozen in a box.

The Hammock Hooks represented on this page are from new designs. They are so made that the weight holds the Hammock secure and fast. The Hammock is easily and quickly attached without fastening or tying and as easily and quickly removed.

# BAR MEAT HOOKS

## TINNED IRON

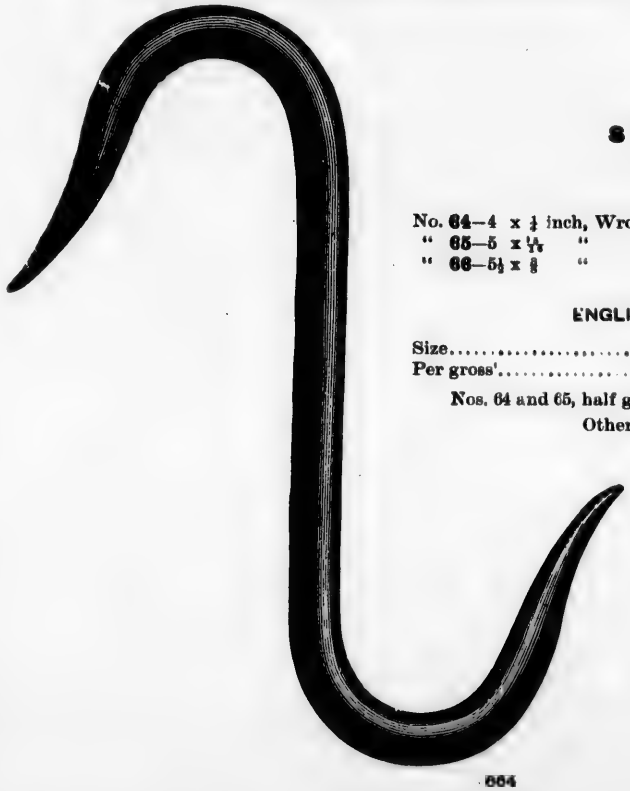
Full size cuts.



No. 89

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| No. | 89—Tinned, Wrought Iron, for | 1 | inch Bar, | 7/16 | inch Round Iron | ..... | per gross | | $23.00 |
| " | 90— " | " | " | 2½ | " | 7/16 | " | " | ..... | " | 32.00 |
| " | 92— " | " | " | 2½ | " | 1/2 | " | " | ..... | " | 79.00 |
| " | 100— " | " | " | 3 | " | 7/16 | " | " | ..... | " | 30.00 |

Nos. 89 and 90, one-sixth gross, No. 92, one-twelfth gross, No. 100, quarter gross in a box.



## S MEAT HOOKS

### TINNED IRON

| | | | | | |
|---|---|---|---|---|---|
| No. | 64—4 x ¼ | inch, Wrought Iron | ..... | per gross | $14.00 |
| " | 65—5 x 1/16 | " | " | ..... | " | 20.00 |
| " | 66—5½ x 3/8 | " | " | ..... | " | 30.00 |

### ENGLISH TINNED S HOOKS

| Size | 3 x ⅛ | 3 x 5/16 | 4 x ¼ inch. |
|---|---|---|---|
| Per gross | $5.60 | 5.85 | 7.00 |

Nos. 64 and 65, half gross, and No. 66, quarter gross in a box.
Other sizes, 1 gross packages.

# MEAT HOOKS



No. 12. Full size cut.

| | | |
|---|---|---|
| No. 12—Tinned, Wrought Iron, to Drive | per gross | $11.00 |
| " 13— " " " " | " | 16.00 |



No. 22. Full size cut.



No. 32. Full size cut.

| | | |
|---|---|---|
| No. 21—Tinned, Wrought Iron, to Screw | per gross | 8.50 |
| " 22— " " " " | " | 9.50 |
| " 31— " " to Screw on | " | 11.00 |
| " 32— " " " " | " | 12.00 |

Half gross in a box.

# TENTER HOOKS



| Size | 1¼ | 1½ | 1¾ | 2 inch. |
|---|---|---|---|---|
| Per pound | $0.50 | 0.44 | 0.38 | 0.38 |

# CEILING HOOKS

**Full size cuts.**



No. 31



No. 3180. REVOLVING HOOKS

| | | | |
|---|---|---|---|
| No. | **31**—Japanned Wire | per gross | $ 5.00 |
| " | **3180**—2 Hooks, Brass, Polished | " | 14.40 |
| " | **3180**—4 " " " | " | 21.00 |



No. 135



No. 833P

| | | | |
|---|---|---|---|
| No. | **135** —Coppered | per gross | 1.70 |
| " | **833P**—Bronze Metal | per doz. | 3.50 |

# WARDROBE HOOKS

Full size cuts.



No. 520



No. 522

No. **520**—Japanned.....per gross $1.20
" **521**— " ..... " 1.50
" **522**— " ..... " 1.90

No. 521, size between Nos. 520 and 522.



No. 640

No. **640**—Cast Brass.....per gross 22.00



No. 356

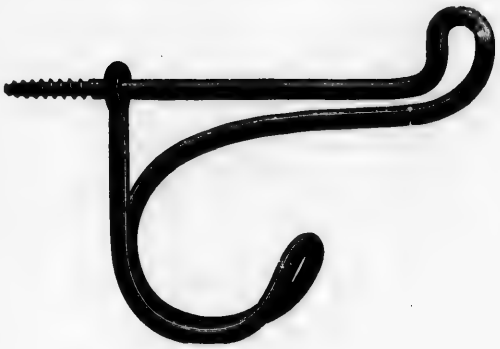


No. 5717, 2½ inch.

No. **356**—Cast Bronze Metal.....per gross 16.80
" **5717**—2½ inch, Cast Brass, with China Knob..... " 19.20
" **5717**—3 " " " " ..... " 21.60

# WIRE HAT AND COAT HOOKS

**Full size cuts.**



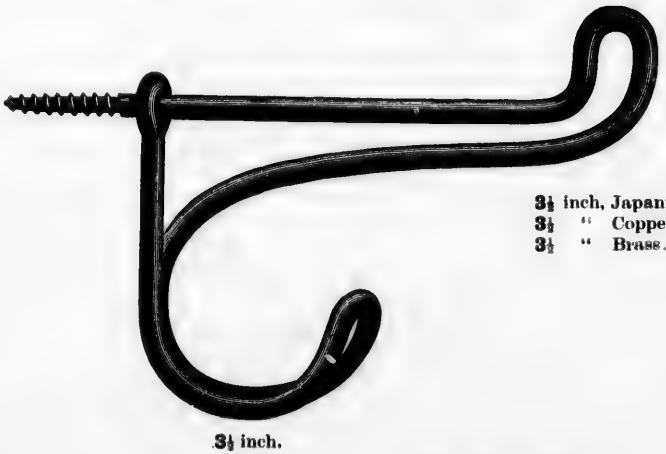
**2½ inch.**

| | | | |
|---|---|---|---|
| **2½** | **inch, Japanned** | **per gross** | **$2.15** |
| **2½** | **" Coppered** | **"** | **2.00** |
| **2½** | **" Brass** | **"** | **5.20** |



**3 inch.**

| | | | |
|---|---|---|---|
| **3** | **inch, Japanned** | **per gross** | **2.55** |
| **3** | **" Coppered** | **"** | **2.40** |
| **3** | **" Brass** | **"** | **6.60** |



**3½ inch.**

| | | | |
|---|---|---|---|
| **3½** | **inch, Japanned** | **per gross** | **3.20** |
| **3½** | **" Coppered** | **"** | **3.00** |
| **3½** | **" Brass** | **"** | **8.75** |

**Half gross in a box.**

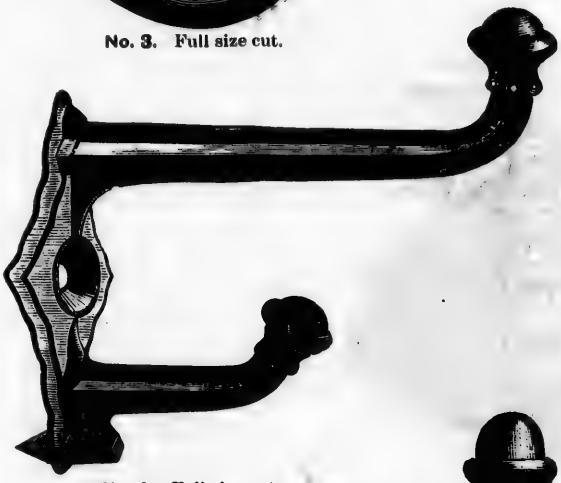
# HAT AND COAT HOOKS



No. 3. Full size cut.

No. 1—3 in., Japanned . per gross $1.40
" 2—3½ " " .. " 2.00
" 3—4 " " .. " 2.60

Quarter gross in a box.

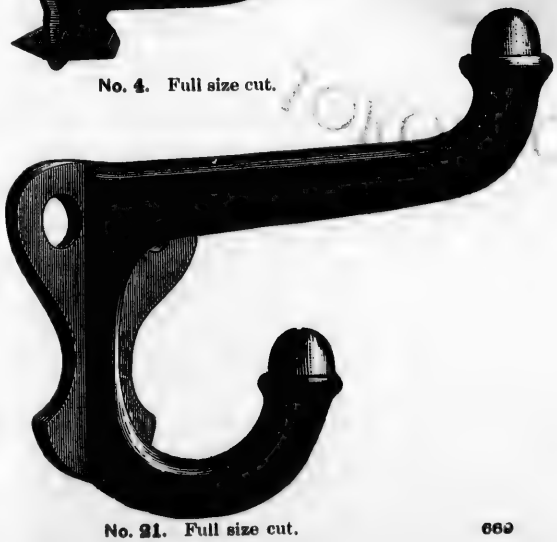


No. 4. Full size cut.

No. 4—Japanned.....per gross $2.50
" 4—Coppered..... " 2.50

Quarter gross in a box.

## SCHOOL HOUSE HOOKS



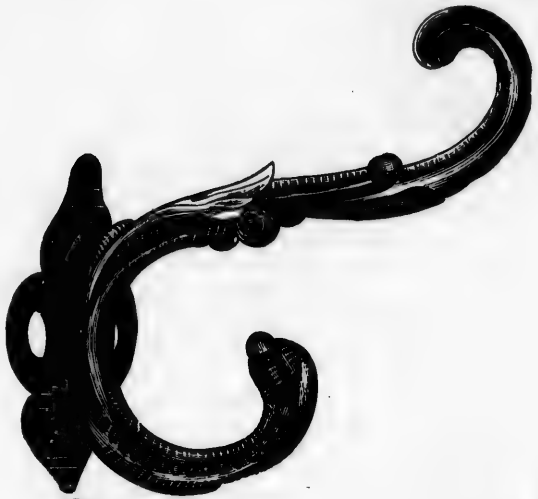
No. 21. Full size cut.

No. 21—3 in., Japanned, per gross $3.00
" 22—4 in., " " 3.80

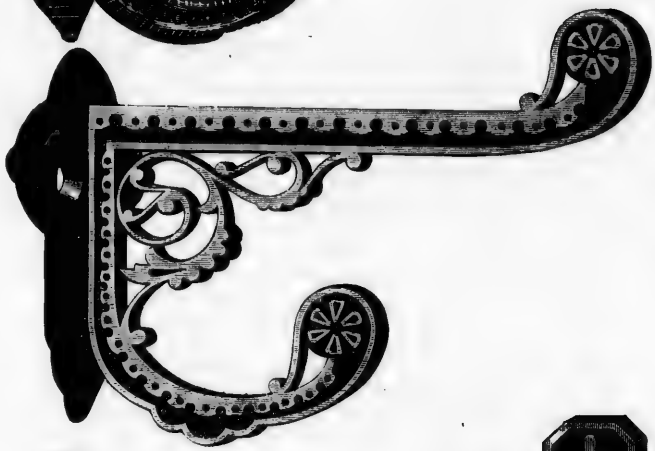
Sixth gross in a box.

# HAT AND COAT HOOKS

Full size cuts.



No. 8—Japanned.....per gross $2.60



No. T404A—Amber Bronzed, per gross..... 7.50



No. 1162—Bronze-Plated (10 Finish).per doz. 1.20

" 1160—Bronze Metal (3 Finish).per doz. 2.50

No. 1162



No. 2-
" 26-

No. 14-
" 15-
" 16-

# HARNESS HOOKS



No. 2

| | | |
|---|---|---|
| No. 2—Japanned, 6 inch, Heavy | per doz. | $1.10 |
| " 26— " 6 " Extra Heavy | " | 1.20 |



Nos. 14 to 16

| | | |
|---|---|---|
| No. 14—Japanned, 5½ inch | per doz. | 1.30 |
| " 15— " 7½ " | " | 1.40 |
| " 16— " 9½ " | " | 1.60 |

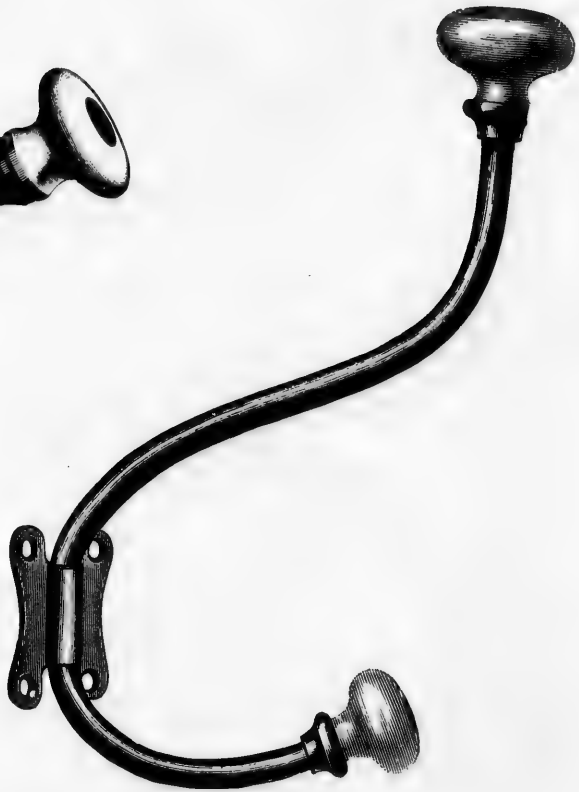
# HAT AND COAT HOOKS

**Full size cuts.**



No. **392**—Amber Bronzed, with Porcelain Knob.....per doz. $1.95

No. **392**

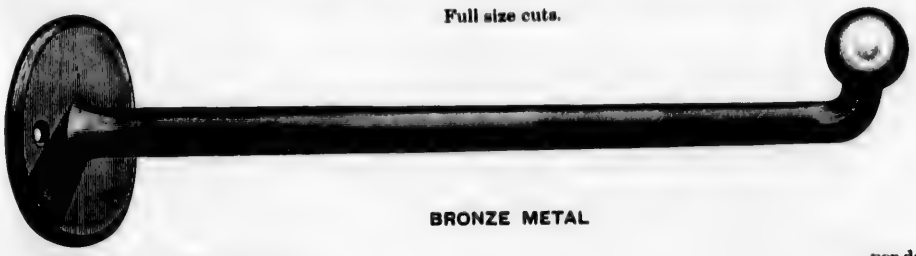


No. **200**

| | | | | | |
|---|---|---|---|---|---|
| No. | **200**—6 | inch, | Plain Brass, Polished and Lacquered, with Porcelain Knob | per doz. | 1.40 |
| " | **200 B**—6 | " | Ornamental Brass, Polished and Lacquered, with Porcelain Knob | " | 1.50 |
| " | **6026**—6 | " | Plain "Heavy," " " " Brass " | " | 3.70 |
| " | **6043**—6 | " | Ornamental " " " " " Riveted Porcelain Knob | " | 3.20 |
| " | **10067**—7 | " | Rope Pattern " " " " " " " " | " | 4.50 |

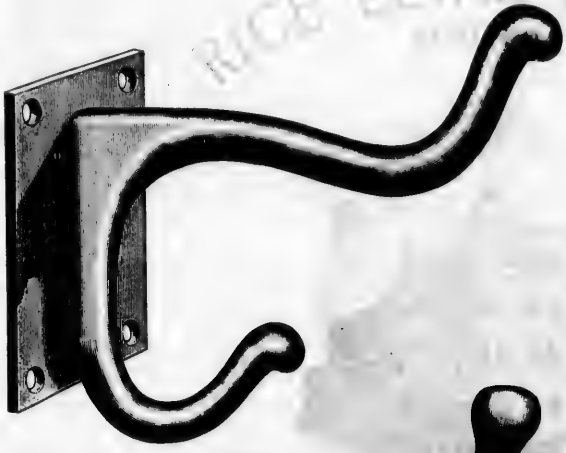
# REGALIA OR TOWEL HOOKS

Full size cuts.



## BRONZE METAL

No **1239½**—5½ inch, Bent Ball Tip ..... per doz. $3.80
" **1239½**—5½ " Straight Ball Tip ..... " 3.80



No. **01232½**

## HAT AND COAT HOOKS

No. **01232½**—Bronze Metal..... per doz. 3.40
" **1034½**—Bronze-Plated..... " 0.75



No. **01238½**

No. **01238½**—Cast Bronze Metal..per doz. 4.85

# HAT AND COAT HOOKS

Full size cuts.



Nos. 360 and 2872

**SOLID CAST BRONZE**

No. **360** ..... per doz. $3.30

One dozen in a box.

**WROUGHT STEEL, BRONZE-PLATED**

No. **2872** ..... per doz. $1.00

Two dozen in a box.



No. 362

**SOLID CAST BRONZE**

No. **362** ..... per doz. $7.00

One dozen in a box.

No. 118

# HAT AND COAT HOOKS

**Full size cut.**



No. **1185**

No. **1185**—Antique, Copper Finish .....per doz. $3.00

# HAT RACK HOOKS

**Full size cuts.**



No. 4526

No. **4526**—Cast Brass.....per doz. $4.15



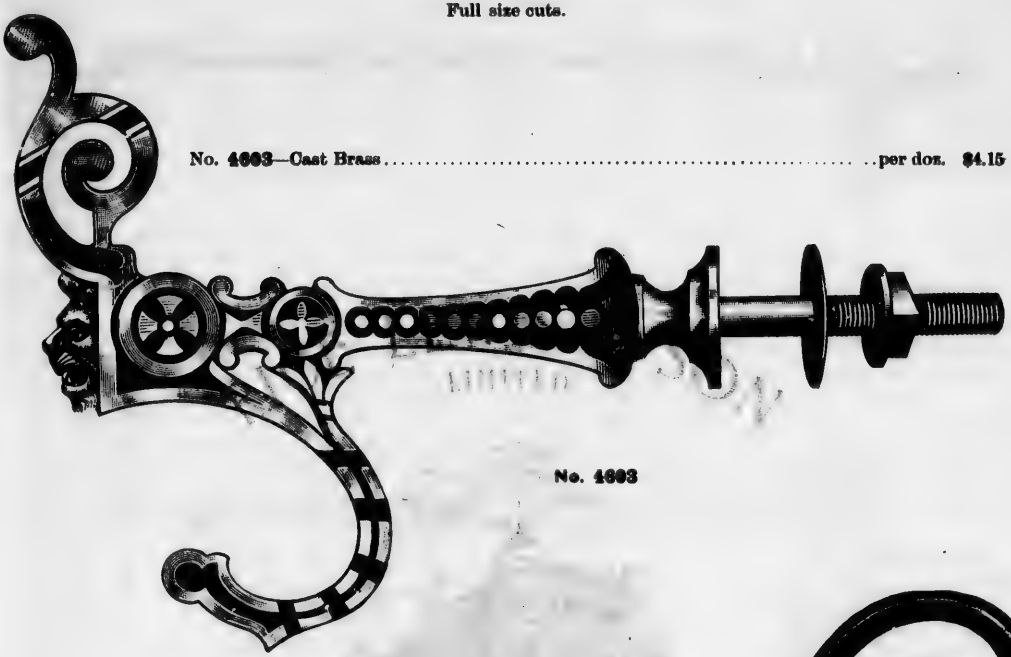
No. 4532

No. **4532**—Cast Brass.....per doz. 10.50

# HAT RACK HOOKS

**Full size cuts.**

No. **4603**—Cast Brass ..... per doz. **$4.15**



No. 4603

No. **4530**—Cast Brass ..... per doz. **$4.15**

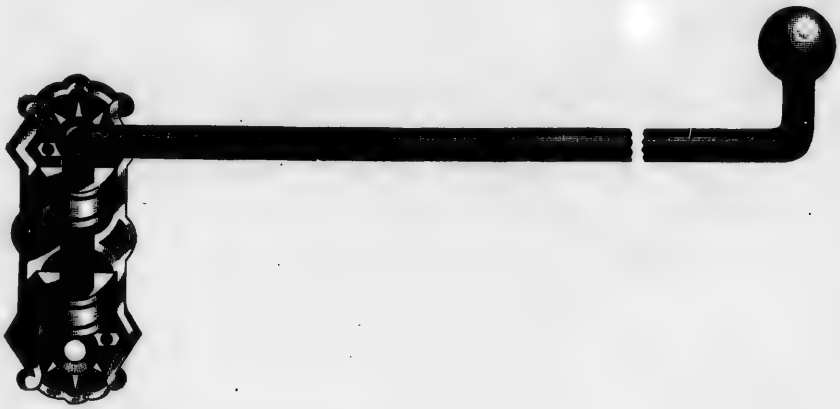


No. 4530

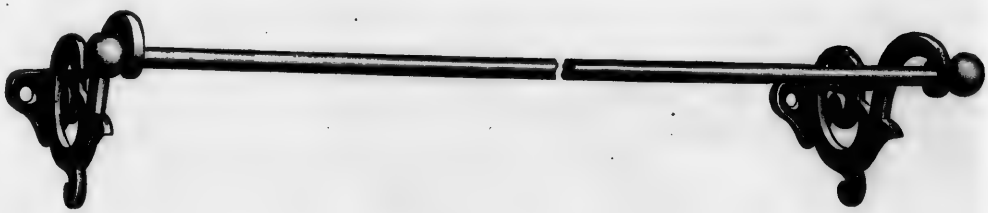
# TOWEL RACKS



No. **4629**—12 inch Long, 1½ inch Extension ..... per doz. $1.15



No. **4337**—Length of Arm, 14 inches ..... per doz. 2.10



No. **5080**—Single Arm, length outside of Brackets, 15½ inches ..... per doz. 6.00
" **5078**—Double " " " " 15½ " ..... " 10.50

# UPHOLSTERERS' NAILS

## BRASS HEAD

Full size cuts.



| 6 | 5 | 4 | 3 | 10 | 11 | 12 | 12BB | 42 | 43 | 43B | 42F | 43F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nos. | | | | 6 | 5 | 4 | 3 | 10 | 11 | 12 | 12B | 12BB |
| Per 1000. | | | | $0.92 | 1.03 | 1.42 | 1.90 | 1.40 | 1.10 | 0.92 | 0.67 | 0.67 |
| Nos. | | | | 43/10 | 43/12 | 43/14 | 43/10 | 43/12 | 43/14 | 43B | 42F | 43F |
| Per 1000. | | | | $0.72 | 0.72 | 0.72 | 0.63 | 0.63 | 0.63 | 0.63 | 1.77 | 1.58 |



| 80B | 522-0 | 530-0 | 526Y | 528Y | 522E | 524E | 526E | 528E |
|---|---|---|---|---|---|---|---|---|
| Nos | 80B | 522-0 | 530-0 | 526Y | 528Y | 522E | 524E | 526E | 528E |
| Per 1000. | $1.80 | 3.04 | 2.47 | 3.23 | 2.75 | 9.90 | 8.00 | 5.60 | 4.37 |

## PORCELAIN HEAD



Nos. 4 — 137½ Gilt

## DRUGGET PINS



2163

## DRAWING PINS



2331

| | | | |
|---|---|---|---|
| Nos. | | 4 | 137½ |
| Per 1000. | | $1.00 | 0.90 |
| Length | | 5/8 | ¾ inch. |
| No. 2163 | per gross | $0.70 | 0.80 |
| Nos. | | 2 | 4 |
| No. 2331 | per gross | $0.50 | 0.40 |

## BRASS HEAD PICTURE NAILS



| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length | | 1 | 1¼ | 1½ | 1¾ | 2 | 2¼ | 2½ | 3 | 3½ | 4 | inch. |
| No. 2160 | per gross | $0.40 | 0.42 | 0.50 | 0.54 | 0.66 | 0.70 | 0.74 | 0.98 | 1.26 | 1.44 | |

## SLIDE HEAD PICTURE NAILS



No. 9

No. 9—2½ inch, White Porcelain Centre, Plain Brass Rim.....per gross $2.70

# BRASS CURTAIN RINGS



510 513 514 515 518

| Nos. | 509 | 510 | 511 | 512 | 513 | 514 | 515 | 516 | 518 | 521 | 525 | 529 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Size | ⅜ | ⅞ | ⅞ | 1 | 1 | 1⅛ | 1 | 1⅛ | 1 | 1 | 1¼ | 1½ | inch. |
| Per gross | $0.18 | 0.20 | 0.24 | 0.28 | 0.29 | 0.40 | 0.44 | 0.48 | 0.54 | 0.70 | 1.14 | 2.10 | |



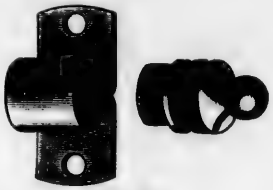
No. 4, ½ inch.

| Size | ⅝ | ⅞ | 1 | 1¼ | inch. |
|---|---|---|---|---|---|
| No. 4—Day's Patent, Brass Burnished, per gross | $1.50 | 1.50 | 1.50 | 1.50 | |

## VESTIBULE BRACKETS



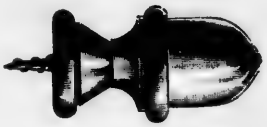
No. 14



No. 22

| Size | ¼ | ⅜ | ½ | inch. |
|---|---|---|---|---|
| No. 14, per doz. pairs | $0.85 | 1.00 | 2.00 | |
| " 22, " " | 1.50 | 1.70 | 3.50 | |

## BRASS POLE ENDS



No. 110

| Size Tube or Pole | ⅝ | ¾ | 1 | inch. |
|---|---|---|---|---|
| No. 110, per doz. pairs | $2.50 | 2.80 | 3.00 | |

## BRASS CASED ROD AND TUBING

See page 325.

## BRACKET SHADE ROLLERS




| | |
|---|---|
| Hartshorn, ⅞ inch, per gross | $24.00 |
| " 1 " " | 31.20 |
| No. 1—Shade Roller Brackets, for ⅞ or 1 inch, " | 3.50 |

# PICTURE OR MOULDING HOOKS

**Full size cuts.**



No. 505



No. 534





Side view Nos. 534 and 535

No. 505—Cast Brass ..... per gross $4.30
" 534—Brass, Polished and Lacquered ..... " 3.50
" 535— " " " ..... " 4.70

RICE LEWIS & SON LIMITED



No. 119



No. 70



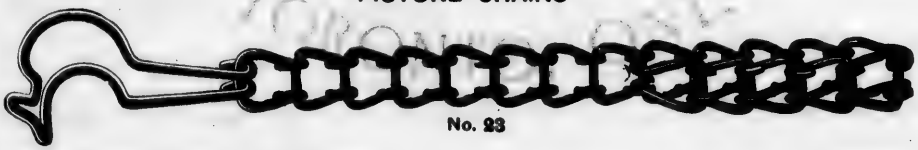
No. 127



No. 175

No. 119—1¼ inch, Brass-Plated ..... per gross $0.60
" 09—1¼ " Brass, Polished, ¼ in. wide, pattern as No. 110 ..... " 1.60
" 70—1 " " Gilt Finish ..... " 2.80
" 127—1¼ " Brass-Plated ..... " 1.25
" 175—2¼ " Brass, Polished ..... " 9.65
" A3172—Picture Suspender, 1¾ in. Brass Plate, with 1 in. Centre Wheel .. " 10.50

## PICTURE CHAINS



No. 23

No. 23—Brass Picture Chains, in 1 yard lengths ..... per doz $1.50

## WIRE PICTURE CORD

**TINNED**

| Nos | 0 | 1 | 2 | 3 |
|---|---|---|---|---|
| Per dozen | $1.50 | 2.25 | 3.75 | 4.50 |

**GILT**

| Nos | 10 | 11 |
|---|---|---|
| Per dozen | $5.25 | 9.00 |

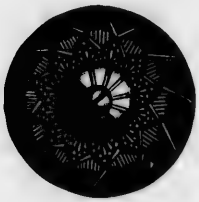
25 yards in a box.



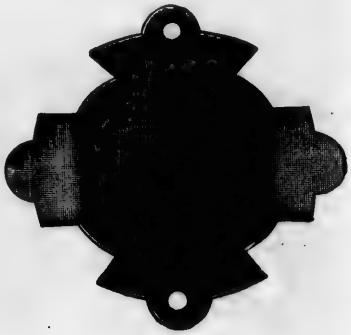
# STAIR BUTTONS AND PLATES



No. 195



No. 150



No. 828

| | | |
|---|---|---|
| No. 195 | —Nickel Stair Buttons, with Screws | per gross $2 45 |
| " 150 | — " " " " " | " 2 75 |
| " 828 | —Burnished Brass Stair Plates, with Pins | " 3.80 |
| " 828N | —Nickel-Plated " " same pattern as 828 | " 3.80 |
| " 626 | —Zinc Polished " " Plain Pattern | " 2.50 |

Quarter gross in a box.

## STAIR RODS AND EYES

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Length | | 24 | 26 | 27 | 28 | 30 | inch. |
| No. 3 | —Brass Stair Rods | per doz. $0.90 | 1.00 | 1.10 | 1.20 | 1.30 | |
| " 312 | — " " Rod Eyes to drive, for No. 3 Rod | | | | | per gross | $1.90 |

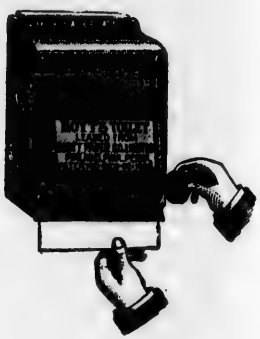
## TOILET FIXTURES



No. 10



No. 20



HOYT'S

| | | |
|---|---|---|
| No. 10 | —Bronzed | per doz. $1.75 |
| " 20 | —Nickel-Plated, specially adapted for Hotels and Public Places | " 6 15 |

Hoyt's Patent Cabinet rented free of charge to users of their Patent Paper.

## TOILET PAPER

| IN ROLLS | | | | IN PACKAGES | | | |
|---|---|---|---|---|---|---|---|
| A quality, perforated | per case | (100 rolls) | $10.00 | A quality | per case | (100 packages) | 10.00 |
| B " " | " | " | 9.00 | B " | " | " | 9.00 |
| C " " | " | " | 8.00 | C " | " | " | 8.00 |
| Hoyt's Patent Toilet Paper | | | | | " | " | 15.75 |

# TOILET CLIPPERS



No. 1661



No. 1662



No. 1724

| | | |
|---|---|---|
| No. **1661** —Boker's, Nickel-Plated | each | $2.65 |
| " **1662** — " " | " | 2.40 |
| " **1724-0**— " " | " | 3.25 |
| " **1724-1**— " " | " | 2.85 |
| **Springs**, for Boker's Clipper No. 1661 | per doz. | 0.45 |
| " " " " " 1662 | " | 0.90 |

RICE LEWIS & SON LIMITED



BROWN & SHARPE



WIDE AWAKE

| | | |
|---|---|---|
| No. **00**—Brown & Sharpe, same as No. 0, but narrower | each | 5.70 |
| " **0**— " " to cut the hair very short, about equal to shaving | " | 5.70 |
| " **1**— " " " " one-eighth of an inch long | " | 5.70 |
| " **2**— " " " " one-quarter " " | " | 6.65 |
| " **3**— " " " " five-sixteenths " " | " | 7.60 |
| **Wide Awake**, to cut the hair one-eighth of an inch long | " | 1.15 |
| **Springs**, for Brown & Sharpe Clippers | per doz. | 1.15 |

## HORSE CLIPPERS

TORONTO, ONT.



No. 1668

| | | |
|---|---|---|
| No. **1668**—Boker's Tree Brand, with Leather Cover, Iron Ferrules | each | 1.90 |
| " **1669**—"Gem," " Tin Plate " " " | " | 1.35 |
| " **1704**—Boker's Tree Brand, Ball Bearing, with Leather Cover | " | 2.40 |
| **Top or Bottom Plates**, for Boker's Clipper No. 1668 | " | 0.75 |
| " " " " "Gem" " " 1669 | " | 0.60 |

# HORSE CLIPPERS

"NEWMARKET"

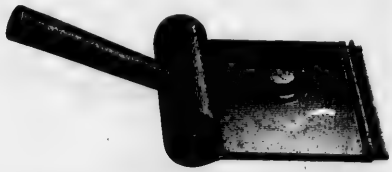


"Newmarket" Horse Clippers.....each $1.65
Bottom Plates, for "Newmarket" Clippers..... " 0.90
Top " " " " ..... " 0.75

## HORSE SINGERS



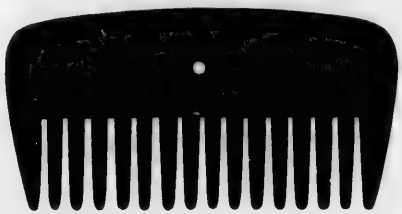
No. 5471



No. 120

No. **5471**—5 inch Wick, with Stop Cock, length over all 15 inches.....per doz. 16.20
" **120**—4 " " length over all 10 inches..... " 3.60

## MANE COMBS

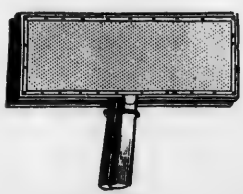


No. **90**—4½ x 2⅜ inch, Horn.....per doz. 1.45
One dozen in a package.

## HORSE CARDS



Nos. 4 and 04



No. 8B

No. **4** —Small, not Bound, 5¾ x 3½ inch.....per single doz. 1.25
" **04** — " " " 5¾ x 3½ " Teeth set in Leather Board..... " " " 0.85
" **8B**—Wool Card, 9½ x 4½ " .....per doz. pairs 4.50

# CURRY COMBS

## CLOSE BACK



No. 111

No. **111**—Steel, 5 Bars, Close Back ..... per doz. $1.00

## OPEN BACK



Nos. 121 to 125

No. **121**—Steel, 6 Bars, Open Back ..... per doz. 1.45
" **123**—Tinned, 6 " " ..... " 1.65
" **125**—Brass, 6 " " ..... " 2.10

## EIGHT BARS, OPEN BACK

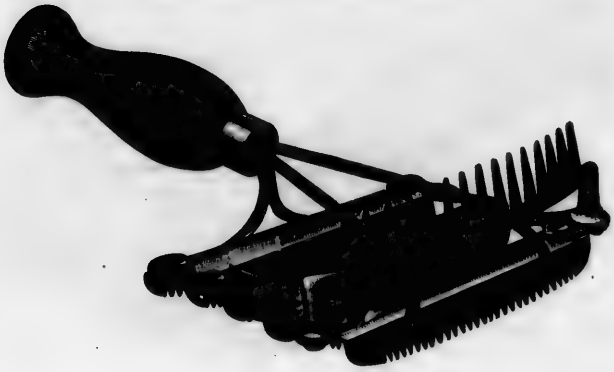
No. **122**—Steel, 8 Bars, Open Back ..... per doz. 1.80
" **124**—Tinned, 8 " " ..... " 2.10
" **126**—Brass, 8 " " ..... " 2.65

The Coppered Steel Wire Shanks are driven clear through the Handles and Riveted.

One dozen in a box.

# CURRY COMBS

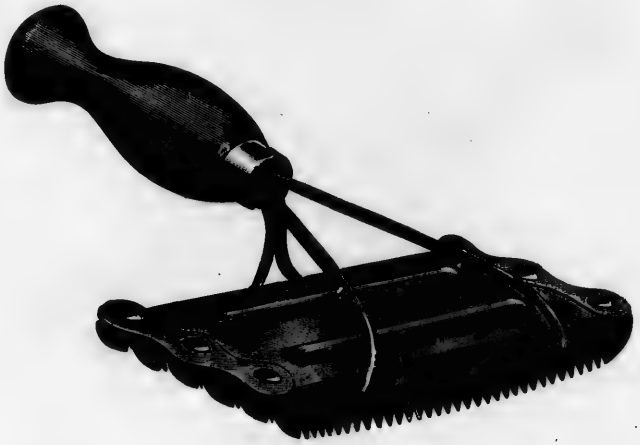
## OPEN BACK, WITH MANE COMB



No. 127

No. **127**—Steel, 6 Bars, Close Back, with Mane Comb. ..... per doz. $2.10

## CLOSE BACK



No. 147

No. **147**—Steel, 6 Bars, Close Back ..... per doz. 1.65

## EIGHT BARS, CLOSE BACK

No. **148**—Steel, 8 Bars, Close Back ..... per doz. 2.00

The Coppered Steel Shanks are driven clear through the Handles and Riveted.

One dozen in a box.

# CURRY COMBS

## CLOSE BACK



No. 47

No. 47—Steel, 6 Bars, Close Back ..... per doz. $2.10

## EIGHT BARS, CLOSE BACK

No. 48—Steel, 8 Bars, Close Back ..... per doz. 2.35

Nos. 47 and 48 have Steel Back and Steel Bars with strong Malleable Iron Brace Back, which is Riveted through Handle.

## OPEN BACK




No. 51

No. 51—Solid Steel Back, Riveted through Handle, 6 Bars, Open Back ..... per doz. 1.65

One dozen in a box.

# CURRY COMBS

## DOUBLE WOOD HANDLE



Nos. 33 to 37

No. 33—Steel, 6 Bars, Open Back.....per doz. $2.00
" 35—Tinned " " ..... " 2.30
" 37—Brass " " ..... " 3.10

Steel Bars, Malleable Iron Back.

## CIRCULAR SPRING STEEL



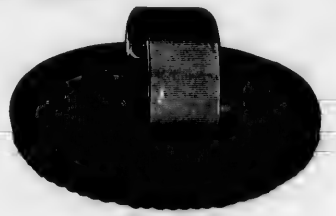
No. 75

No. 75—Circular Spring Steel.....per doz. $2.22
Strong Malleable Iron Shank, which is Riveted through Handle.

## HORSE'S FRIEND CURRY COMB



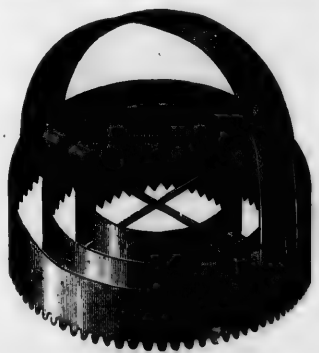
FRONT VIEW



BACK VIEW

Horse's Friend Curry Combs.....per doz. $2.75

## CURRY COMB AND SCRAPER



No. 3

## CATTLE COMB



No. 98

No. 3 —Ideal, Combined Curry Comb and Scraper, Japanned.....per doz. $1.45
" 98 —Cattle Comb, Steel, Straight Double Cut, Malleable Shank, Riveted through Handle. " 1.40
" 036C— " " " " 3 Bars, Closed Circular Back, Malleable Shank, " " " " 1.60

# SURCINGLES OR GIRTHS

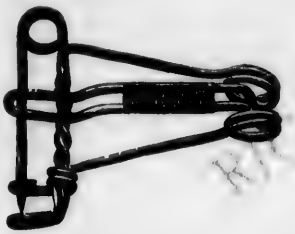


PLAIN



PADDED

| | | |
|---|---|---|
| No. 1—Jute Web Striped, Plain, 3½ inches wide | per doz. | $2.50 |
| " 2— " " " Padded, 3½ " " | " | 3.50 |
| " 3— " " Fancy Colors, Extra Heavy, Plain, 3½ inches wide | " | 3.25 |
| " 4— " " " " Padded, 3½ " " | " | 4.25 |
| " 5—Cotton, " " " 3½ " " | " | 8.00 |



## HORSE BLANKET HOLDERS

Half size cut.

| | | |
|---|---|---|
| Standard Horse Blanket Holder | per gross | 12.00 |

## HORSE BLANKETS

| | | |
|---|---|---|
| No. 1—Unlined, Striped Jute | per doz. | 8.00 |
| " 2— " " " | " | 10.25 |
| " 3— " " " | " | 11.00 |
| " 4— " " " Extra Heavy | " | 12.50 |
| " 6— " " " Heavy, all Dyed Jute | " | 13.50 |
| " 31— " " " Heavy, Superior Quality (70 to 72 inches wide) | " | 15.00 |
| " 32— " " " Extra Heavy " " " | " | 16.50 |
| " 11—Lined " " Two-Thirds Lined with Black Jute | " | 15.00 |
| " 13— " " " " " " | " | 18.00 |
| " 21— " " " " with Wool | " | 20.00 |
| " 24— " " " " " Extra Heavy | " | 24.00 |
| " 25— " Check " " " " " | " | 27.50 |
| " 42— " Striped " " " " " Super Quality | " | 28.00 |
| " 58—Jute and Wool, Extra Heavy Bound and Shaped, are specially adapted for the Stable | " | 37.50 |
| " 60—Dutch Kersey, Bound and Shaped, Fancy Stripe Border | " | 32.50 |
| " 70— " " " " Check | " | 37.50 |
| " 80— " " " " Blue Ground with Fancy Red Stripe | " | 45.00 |
| " 90— " " " " Red Ground with Black Check | " | 50.00 |

## CARRIAGE RUGS OR LAP ROBES

### PLAIN COLORS

Comprising Stripe Patterns Nos. 42 and 49, and Check Patterns Nos. 44 and 47.

| Size | 50 x 60 | 60 x 62 | 60 x 72 inch. |
|---|---|---|---|
| Each | $2.25 | 2.60 | 3.00 |

### FANCY CHECKS

Comprising Nos. 82, 83 and 84.

| Size | 50 x 60 | 60 x 62 | 60 x 72 inch. |
|---|---|---|---|
| Each | $2.60 | 3.10 | 3.60 |

### SUPERIOR BLOCK CHECKS

Comprising Nos. 300, 386 and 384.

| Size | 50 x 60 | 60 x 62 | 60 x 72 inch. |
|---|---|---|---|
| Each | $2.80 | 3.30 | 3.75 |

### SUPERIOR FANCY CHECKS

Comprising Nos. 392, 393 and 394.

| Size | 50 x 60 | 60 x 62 | 60 x 72 inch. |
|---|---|---|---|
| Each | $3.00 | 3.50 | 4.00 |

### KLONDIKE

Reversible, Fancy Colors with Border, comprising Nos. 400, 401 and 402.

| Size | 60 x 72 inch. |
|---|---|
| Each | $4.50 |

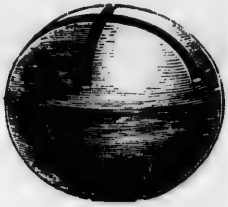
# SLEIGH BELLS



No. 2, ALASKA



No. 1, CENTENNIAL



No. 4, CENTENNIAL

| No. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | 1 | Back Strap, | Plain | Black | Leather, | 12 | No. | 2 | Alaska Bells, | Stamped, | Nickeled | each | $0.66 |
| " | 2 | " | " | " | " | 30 | " | 2 | " | " | " | " | 1.50 |
| " | 4 | " | " | " | " | 12 | " | 1 | Centennial Bells, | Stamped, | Nickeled | " | 0.80 |
| " | 5 | " | " | Russet | " | 12 | " | 1 | " | " | Gilt | " | 0.80 |
| " | 6 | Body | " | Black | " | 24 | " | 1 | " | " | Nickeled | " | 1.60 |
| " | 7 | " | " | Russet | " | 24 | " | 1 | " | " | Gilt | " | 1.60 |
| " | 8 | Back | " | Black | " | 10 | " | 2 | " | " | Cast, Nickeled | " | 0.90 |
| " | 9 | Body | " | Blue | " | 30 | " | 2 | " | " | " | " | 2.60 |
| " | 10 | " | " | Black | " | 24 | " | 2 | " | " | " | with Ornaments | 2.75 |
| " | 111 | Back | " | Bound Russet | " | 10 | " | 4 | " | " | " | " | 1.50 |
| " | 11 | " | " | Plain Black | " | 10 | " | 4 | " | " | " | with Ornaments | 1.40 |



No. 1, DEXTER

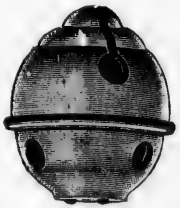


No. 2, DEXTER



No. 3, CANUCK

| No. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | 12 | Back Strap, | Plain | Black | Leather, | 12 | No. | 1 | Dexter Bells, | Stamped, | Nickeled | each | 0.76 |
| " | 13 | Body | " | " | " | 30 | " | 1 | " | " | " | " | 1.90 |
| " | 14 | " | " | " | " | 40 | " | 1 | " | " | " | " | 2.24 |
| " | 15 | " | " | " | " | 50 | " | 1 | " | " | " | " | 2.75 |
| " | 16 | " | " | Orange | " | 50 | " | 1 | " | " | Gilt | " | 2.75 |
| " | 17 | Back | " | Black | " | 12 | " | 2 | " | " | Nickeled | " | 1.15 |
| " | 20 | " | " | " | " | 12 | " | 3 | Canuck | " | Cast, Nickeled | " | 1.25 |
| " | 21 | " | " | Orange | " | 12 | " | 3 | " | " | " | " | 1.45 |



No. 1, C.O.C.



No. 2, C.O.C.



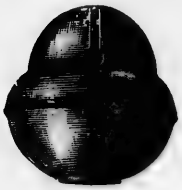
NEW BEVEL

| No. | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | 22 | Body Strap, | Plain | Black | Leather, | 40 | No. | 1 | C.O.C. Bells, | Stamped, | Nickeled | each | 2.30 |
| " | 23 | " | " | " | " | 60 | " | 1 | " | " | " | " | 3.25 |
| " | 24 | " | " | " | " | 70 | " | 1 | " | " | " | " | 3.75 |
| " | 25 | " | " | Orange | " | 60 | " | 1 | " | " | " | " | 3.25 |
| " | 26 | " | " | " | " | 30 | " | 1 | " | " | Gilt, Felt Lined | " | 2.30 |
| " | 27 | Back | " | Black | " | 12 | " | 2 | " | " | Nickeled | " | 1.20 |
| " | 28 | " | " | Wine | " | 12 | " | 2 | " | " | " | " | 1.20 |
| " | 29 | " | " | Black | " | 12 | " | 2 | " | " | " | Felt and Ornaments | 1.50 |
| " | 30 | Body | " | Orange | " | 30 | " | 2 | " | " | " | " " | 3.50 |
| " | 31 | " | " | Black | " | 24 | New | Bevel | " | " | " | " | 1.70 |
| " | 32 | " | " | " | " | 40 | " | | " | " | " | " | 2.50 |

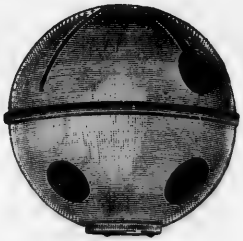
# SLEIGH BELLS



ACORN



DOME



CARNIVAL

No. **35**—Back Strap, Plain Black Leather, 18 Acorn Bells, Cast, Nickeled ..... each $1.30
" **37**—Body " " " " " 50 " " " " " ..... " 3.50
" **38**— " " " " " 70 " " " " " ..... " 4.80
" **43**— " " " Wine " 40 Dome " " " ..... " 2.90
" **44**— " " " Black " 60 " " " " ..... " 4.20
" **45**— " " " " " 10 Carnival Bells " " ..... " 1.90

RICE LEWIS & SON LIMITED TORONTO, ONT.

## YORK EYE AND TEAM BELLS



PEAR SHAPE



HEAVY TEAM

## COLLAR AND SNAP SHANK BELLS



STRAPPED COLLAR



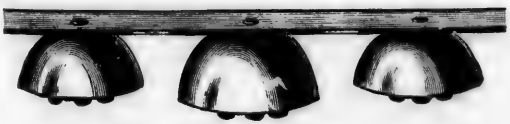
SNAP SHANK

| Nos. | | | | 10 | 12 | 14 |
|---|---|---|---|---|---|---|
| York Eye, Pear Shape Bells, Cast, Nickel-Plated | | | per doz. | $1.55 | 1.80 | 2.00 |

| Nos. | | | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|
| Heavy Team Bells, Cast, Polished Rim | per doz. | | $2.40 | 2.90 | 3.50 | 4.90 | 6.20 |
| " " " Full Polished | " | | 2.70 | 3.20 | 3.80 | .... | .... |
| " " " Nickel-Plated | " | | 2.90 | 3.50 | 4.00 | .... | .... |

No. **90**—Strapped Collar Bells ..... per doz. $1.40
" **3**—Snap Shank Bells ..... " 2.80

## SHAFT GONGS



No. 57



No. 61

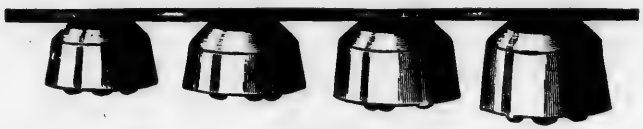
No. **56**—2 Nickel-Plated Steel Gongs on Iron Strap ..... per pair 0.40
" **57**—3 " " " " ..... " 0.66
" **61**—3 " " " ..... " 1.20

# SLEIGH BELLS



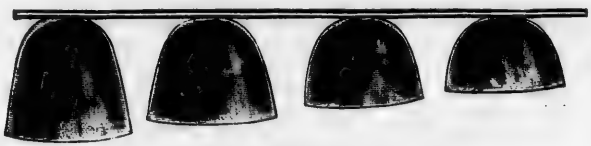
Nos. 62 and 63

No. 62—4 Nickel-Plated Steel Gongs on Iron Strap.....per pair $1.30
" 63—4 " Brass " " " ..... " 1.70



No. 64

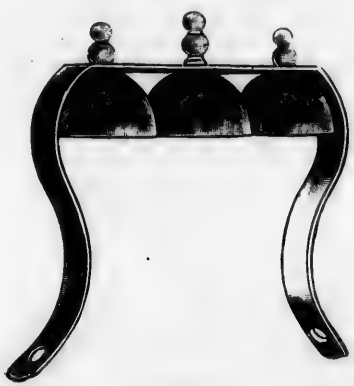
No. 64—4 Cast Brass Bevel Chime Gongs on Iron Strap .....per pair 1.90



Nos. 65 and 165

No. 65—4 Nickel-Plated Brass Gongs on Iron Strap.....per pair 2.70
" 165—4 " " " Heavy, Tuned to Octave, on Nickel-Plated Iron Strap..... " 3.50

## SADDLE CHIMES



No. 76

No. 76—Stamped Brass, Nickel-Plated.....each 1.75

# SADDLE CHIMES



No. 77

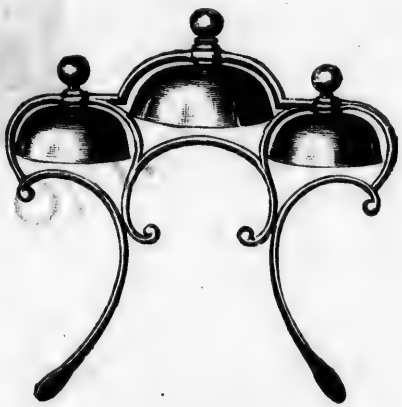


No. 78

No. **77**—Stamped Brass, Nickel-Plated.....each $2.00
" **78**—Cast Brass Gongs, " ..... " 1.75



No. 80



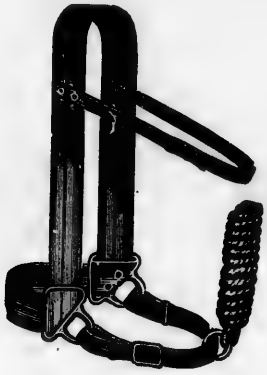
No. 82

No. **80**—Cast Brass, Nickel-Plated .....each 3.80
" **82**— " " " ..... " 4.50

# HALTERS



No. 00



No. 1

No. **00**—Web Halter, 12 Cord, Rope Chin Strap and Tie.....per doz. $3.80
" **1**—Adjustable Web Halter, with Riveted Leather Chin Strap, Rope Tie..... " 4.50



Nos. 3 and 4



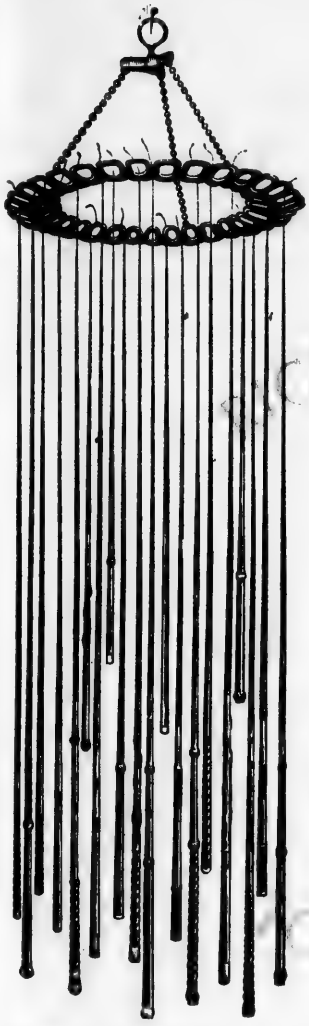
Nos. 5 and 6

No. **3**—Defiance Leather Halters, Black, 1 inch, Tinned Trimmings, Rope Tie.....per doz. 6.50
" **4**— " " " " 1¼ " " " " ..... " 8.00
" **5**—Sensible " " " 1 " " " " ..... " 10.25
" **6**— " " " " 1¼ " " " " ..... " 12.00

## SNAP AND RING ROPE TIES

| | | | | |
|---|---|---|---|---|
| **Sisal**, Diameter..... | ⅝ | 7/16 | ½ | ⅝ inch. |
| Per gross..... | $14.50 | 16.00 | 17.50 | 20.00 |

# DRIVING WHIPS



## RATTAN, PLATTED THROUGHOUT

| | Per doz. |
|---|---|
| No. **062**—Black, Coppered Head, Loop Snap, 6 ft | $1.35 |
| " **065**— " " " " Smooth Finish, 6 ft | 1.90 |
| " **71**— " Rubber Cushioned Head, Loop Snap, Smooth Finish, 6 ft | 2.25 |
| " **86**—Black, Japanned Cap, Loop Snap, Smooth Finish, 6 ft | 2.65 |
| " **87**—Wine " " " " " 6 " | 2.65 |
| Nos. 86 and 87 have 4 Stitched Head Buttons. | |
| " **21**—Black, Philadelphia Head and Snap, Smooth Finish, 6 ft | 3.00 |
| " **33**—Wine " " " " " 6 " | 3.00 |
| " **66**—Black " " " " " 6 " | 3.00 |
| No. 33 has 2 Celluloid Mounts; No. 66, 2 Brass and Colored Mounted Buttons. | |
| " **93**—Assorted Colors, Black, Wine and Amber, Fancy 1¾ inch Coppered Head and Mount, Philadelphia Snap, 6 ft | 3.75 |
| " **18**—Black, Russet Leather Handle, Japanned Cap, 1¼ inch Chased Nickeled Mounting, 4 Stitched Head Button, Philadelphia Snap, 6 ft | 4.50 |
| " **24**—Wine, Loaded Butt Handle, one 3½ inch Mounting, Philadelphia Snap, 6 ft | 4.90 |
| " **686**—Harvester Whip, Black, Nickeled Head and Mount, Loop Snap, 10½ ft | 6.00 |

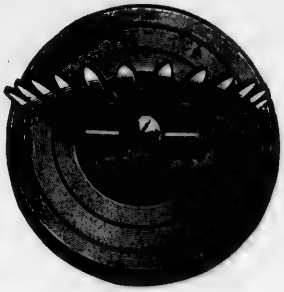
## RAWHIDE

| | |
|---|---|
| No. **141**—Black, Solid Rawhide Centre, Metal Lined, Rubber Cushioned Cap, 2 Loomis Buttons, Philadelphia Snap, 6 ft | 5.25 |
| " **162**—Black, Solid Rawhide from Tip to Butt, 2 Square Buttons, Philadelphia Snap, 6 ft | 7.15 |
| " **143**—"Keystone," Black, Solid Rawhide Centre, Waterproof Lined, Rubber Cushioned Cap, 2 Loomis Buttons, Philadelphia Snap, 6 ft | 9.00 |
| " **155**—"Famous," Black, Solid Rawhide Centre, Linen and Buck Lined Rubber Cap, 2 Buttons, Philadelphia Snap, 6 ft | 9.75 |
| " **157**—"La Vera Derma," Black, Solid Rawhide from Tip to Butt, Double Cover and Waterproof Underlining entire length, Loomis Buttons, Philadelphia Snap, 6 ft | 10.50 |
| " **158**—"Apex," Black, Solid Rawhide Centre, Horsehair Woven, Waterproof Underlining, Rubber Cushioned Head and Mountings, Philadelphia Snap, 6 ft | 12.00 |
| " **152**—"True Grip," Black, Solid Rawhide Centre, Double Cover and Waterproof Underlining entire length, Rubber Cap, Fine Hand-Worked Buttons, Philadelphia Snap, 6½ ft | 13.50 |
| No. **153**—"True Grip," Wine Color, other particulars same as No. 152 | 13.50 |
| " **154**—"Cyclorama," Black, Solid Rawhide Centre two-thirds length, Buck Lined and Double Covered entire length, Rubber Cap, Hand-Worked Buttons, Philadelphia Snap, 6 ft | 15.00 |
| " **164**—"Vulcanite," Wine, Solid Rawhide Centre to Handle, Genuine Rubber Underlining Vulcanized on the Stalk, making it perfectly Waterproof, Rubber Cushioned Cap, Loomis Buttons, Philadelphia Snap, 6 ft | 18.00 |
| " **165**—"Vulcanite," Black, other particulars same as No. 164 | 18.00 |
| " **168**— " Linen " " " " | 18.00 |

## WHALEBONE

| | |
|---|---|
| No **216**—Black, Heavy two-thirds Bone, Double Covered, Waterproof, Rubber Cap, 3 English Buttons, Philadelphia Snap, 6 ft | 22.50 |

# WHIP RACKS



No. 1



No. 2



No. 3

| | | | |
|---|---|---|---|
| No. 1—Handy Whip Racks | | per doz. | $3.00 |
| " 2—Straight, " | | " | 2.20 |
| " 3—Circular " | 16¼ inch Diam, holds 64 Whips, Japanned, without Chains | " | 11.25 |

## WHIP SOCKETS



No. 1



No. 265



No. 2

| | | | |
|---|---|---|---|
| No. | 1—For Wood Dash | per doz. | $ 6.30 |
| " | 2—For Leather Dash | " | 12.60 |
| " | 265 | " | 29.70 |

# HORSE POKES



CLIMAX



DICTATOR



CHAMPION

RICE, LEWIS & SON

| | | |
|---|---|---|
| Climax | per doz. | $3.60 |
| Dictator | " | 3.40 |
| Champion | " | 3.40 |
| No. 2—Pearson's Patent | " | 7.90 |



No. 2, PEARSON'S PATENT



No. 1

## HITCHING POSTS

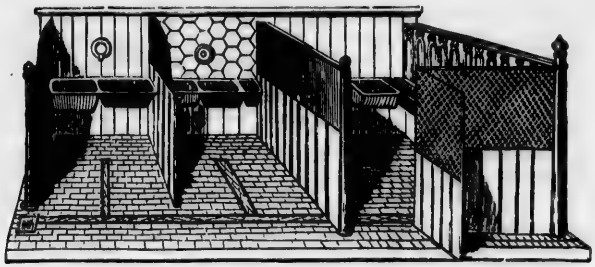
| | | |
|---|---|---|
| No. 1—Painted, with Ring, same as cut | each | $7.50 |
| " 2— " Ventilator, Round Cap | " | 7.50 |

## HORSE TIE WEIGHTS

| | | |
|---|---|---|
| Cast Iron, with Wrought Iron Loop, 12 to 20 lbs. | per lb. | 0.06 |

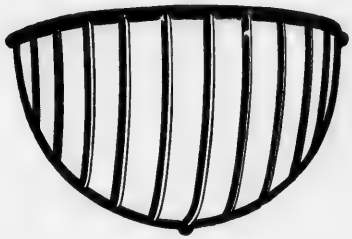
# STABLE FIXTURES

## CAST IRON STALL PARTITION

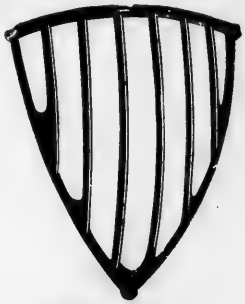


Regular size, 7 feet long x 2 feet 4 inches high. Box Stall work to match, 2 feet 4 inches high, and in any length ordered.

## CAST IRON HAY RACKS



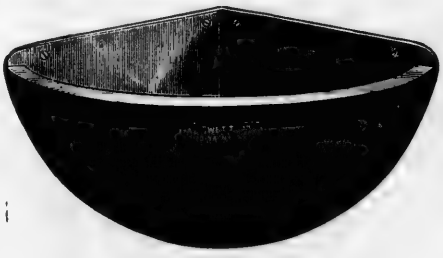
No. 6



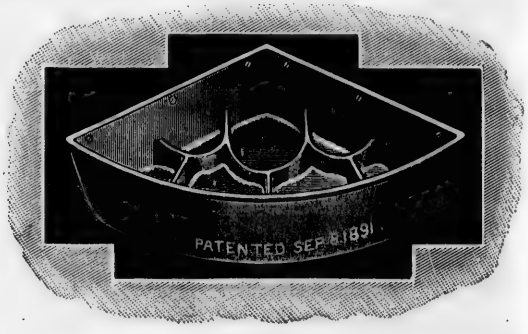
Nos. 10 to 12

| | | | |
|---|---|---|---|
| No. 6—Half Circle for Side of Stall, Size 40 x 17 inch, Weight about 50 lbs. | | each | $6.30 |
| " 10—Made to Fit Corner of Stall, Size 30 x 24 " " " 27 " | | " | 1.75 |
| " 11— " " " " " 30 x 24 " " " 30 " | | " | 2.00 |
| " 12— " " " " " 30 x 24 " " " 35 " | | " | 2.25 |

## CORNER MANGER OR FEED BOXES



No. 1




No. 2

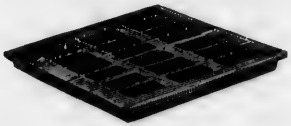
| | | |
|---|---|---|
| No. 1—With Food Guard, 17 x 17 x 10 inches | each | $1.50 |
| " 2—"Slow Feed," 17 x 17 x 6 inches | " | 2.50 |

The "Slow Feed" has seven small Cells or Pockets, each Cell holding about one pint, absolutely prevents waste and also prevents a greedy horse eating the grain too fast.

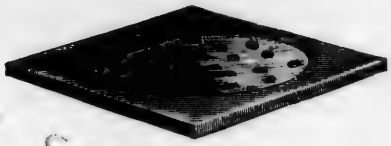
# STABLE CESSPOOLS AND GRATES



No. 15



No. 16



No. 17

RICE LEWIS & SON LIMITED

| | | |
|---|---|---|
| No. 15—Cesspool, size 16 x 16 inch, Heavy Double Grate | each | $3.50 |
| " 16— " Grate, size 11 x 11 inch | " | 1.20 |
| " 17— " " " 4 to 12 inches square | per lb. | 0.10 |

## CAST IRON STABLE GUTTERS

| | | |
|---|---|---|
| Made in Sections 3 feet long, 7 inches wide, Movable Cover | per ft. | 1.80 |

## BRACKETS

| | | |
|---|---|---|
| Saddle | each | $1.40 |
| Bridle | " | 0.40 |
| Blanket | " | 0.90 |

TORONTO, ONT.

## STEEL CARRIAGE JACKS

Strong, Light and Compact, operated by Powerful Compound Levers. Adjustment rapid and convenient, with wide range in height.

| | | | |
|---|---|---|---|
| No. 1—Lifts to 900 lbs | | each | $1.40 |
| " 2— " 1800 " | | " | 2.10 |
| " 3— " 4000 " | | " | 4.90 |



# HITCHING RINGS

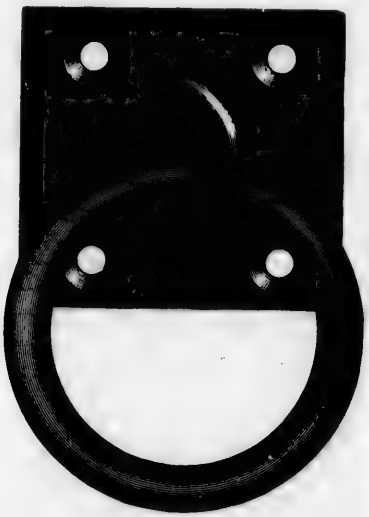


Nos. 15 to 17

| | | |
|---|---|---|
| No. 15—2½ inch, Wrought Iron, Plain | per doz. | $0.90 |
| " 16—2½ " " " Japanned | " | 1.30 |
| " 17—2½ " " " Galvanized | " | 1.50 |



No. 36

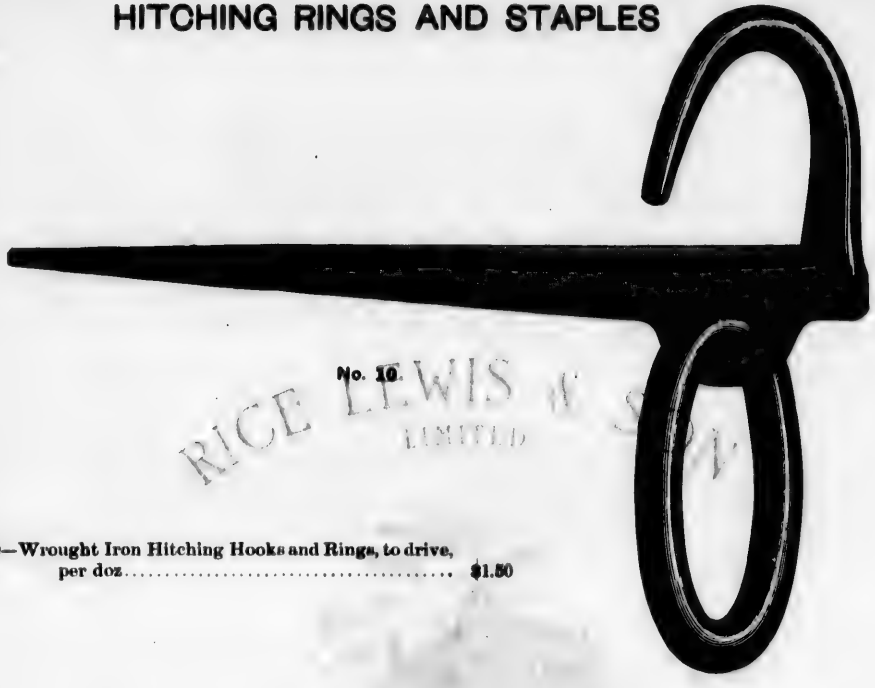


Nos. 45 and 47

| | | |
|---|---|---|
| No. 36—2½ inch, Wrought Ring and Swivel, Iron Plate, Japanned | per doz. | $1.05 |
| " 45—2½ " " " and Plate, Japanned | " | 1.05 |
| " 47—2½ " " " " Galvanized | " | 1.50 |

One dozen in a box.

# HITCHING RINGS AND STAPLES

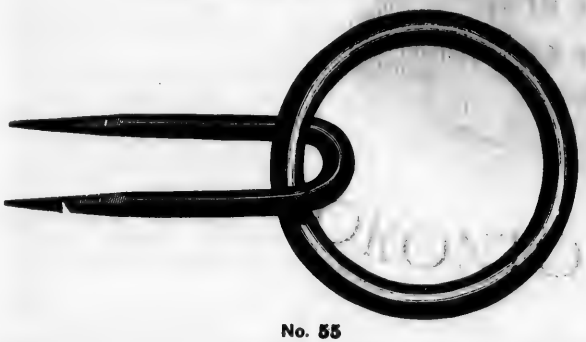


No. 10.

RICE LEWIS & SON LIMITED

No. 10—Wrought Iron Hitching Hooks and Rings, to drive, per doz..... $1.50

## RINGS AND STAPLES



No. 55

## HALTER RINGS



No. 55—2½ inch, Wrought Trap Door or Hitching Rings and Staples.....per gross $3.75

## MALLEABLE HALTER RINGS

| Size | | ⅝ | ¾ | ⅞ | 1 | 1¼ | Light. 1½ | Heavy. 1½ | 1¾ | 2 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Japanned | per gross | $0.52 | 0.56 | 0.64 | 0.80 | 0.90 | 1.52 | 1.62 | 1.96 | 2.22 | |
| XC | " | 0.58 | 0.60 | 0.70 | 0.90 | 1.30 | 1.80 | 1.90 | 2.20 | 2.74 | |

## WROUGHT PACK RINGS

| Size | | 5/16 x 2 | 2¼ | 2½ | 2¾ | 3 | 3¼ | 3½ | 3¾ | 4 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Japanned | per gross | $2.50 | 3.00 | 3.20 | 4.00 | 4.50 | 5.00 | 5.50 | 6.00 | 6.50 | |

# HARNESS SNAPS



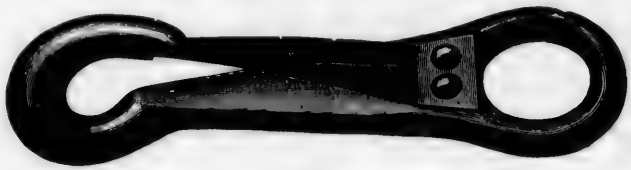
No. 23

## GERMAN PATTERN

| Nos | 20¼ | 22 | 23 | 25 | 26 | 27 | 28 | |
|---|---|---|---|---|---|---|---|---|
| Size of Eye | ½ | ½ | 1 | 1¼ | 1½ | 1¾ | 2 | inch. |
| Bronzed ..... per gross | $2.00 | 2.40 | 2.40 | 4.20 | 5.50 | 7.00 | 8.00 | |

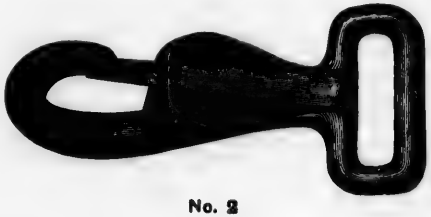


No. 60



No. 63

| Nos | 60 | 61 | 62 | 63 | |
|---|---|---|---|---|---|
| Size of Eye | ⅜ | ½ | ⅝ | ¾ | inch. |
| Bronzed ..... per gross | $2.00 | 2 40 | 3.20 | 4.00 | |



No. 2

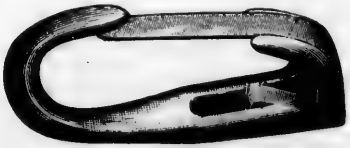
| | | |
|---|---|---|
| No 2—Loop Eye, Japanned, ⅞ inch ..... per gross | $7.25 |
| " 4— " " 1 " ..... " | 8.75 |
| " 7— " " 1¾ " ..... " | 15.50 |

## ROUND EYE

| | |
|---|---|
| No. 20—Round Eye, Japanned, ⅞ inch Round Eye ..... per gross | 12.00 |

## BIT SNAPS



No. 15

| | | |
|---|---|---|
| No. 14—Coleman's Patent Bit Snaps, Bronzed ..... per gross | 4.65 |
| " 15—XC Bit Snaps, ..... " | 4.15 |

# HARNESS SNAPS

**TINNED**



**No. 32, GEM**



**No. 4, HUBBARD'S**

| Size | | ⅞ | 1 | 1¼ | 1½ | 1¾ inch. |
|---|---|---|---|---|---|---|
| No. 32—XC Plate | per gross | $6.00 | 6.00 | 8.25 | 9.00 | 10.50 |
| " 4— " | " | 7.20 | 7.20 | .... | .... | ..... |



**No. 12**



**No. 12, OPEN EYE**

| Size | | ⅝B | ½ | ⅝ | ⅞ | 1 | 1¼ | 1½ | 1¾ inch. |
|---|---|---|---|---|---|---|---|---|---|
| No. 12—Bolt Snaps, XC | per gross | .... | .... | .... | $2.70 | 2.80 | 4.80 | 5.40 | 6.20 |
| " 12— " " Round Eye, Closed | " | .... | $3.20 | 3.30 | .... | .... | .... | .... | .... |
| " 12— " " " Open | " | $4.20 | .... | .... | .... | .... | .... | .... | .... |
| " 13— " " " " Heavy | " | .... | 9.40 | .... | .... | .... | .... | .... | .... |



**No. 10**




SEE SPRING GUARDS.

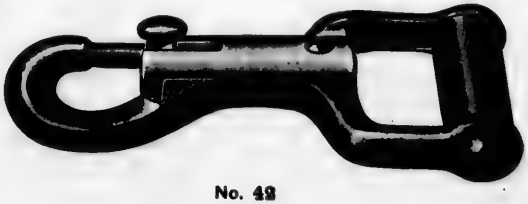
**No. 55**

| Size | | ½ | ⅝ | ¾ | ⅞ | 1 | 1¼ | 1½ | 1¾ | 2 inch. |
|---|---|---|---|---|---|---|---|---|---|---|
| No. 10—Lock Snaps, XC | per gross | .... | .... | .... | .... | $7.20 | 9.40 | 10.00 | 12.00 | .... |
| " 55—"Triumph," " | " | .... | .... | .... | $3.16 | 3.36 | 5.76 | 6.40 | 7.06 | .... |
| " 17—"Premier," " | " | .... | .... | .... | 2.66 | 2.76 | 4.56 | 5.42 | 6.65 | 7.60 |
| " 18— " " Round Eye | " | $2.47 | 2.47 | 2.57 | .... | .... | .... | .... | .... | .... |

## BREAST STRAP ROLLER SNAPS



**No. 19**



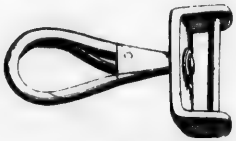
**No. 42**

| Size | | 1½ | 1¾ inch. |
|---|---|---|---|
| No. 19—Breast Strap Roller Snaps, XC | per doz. | $2.00 | 2.16 |
| " 42— " " " | " | 2.00 | 2.16 |

# BAG AND SWIVEL SNAPS



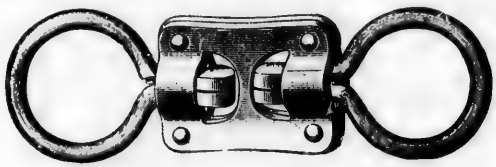
No. 5961



No. 5628
Style of Nos. 5627 and 5626

| | | | | | | |
|---|---|---|---|---|---|---|
| Length over all | 1 | 1⅛ | 1¼ | 1½ | 1¾ | 2 inch. |
| No. 5961 ..... per doz. | $1.20 | 1.20 | 1.20 | 1.20 | 1.40 | 1.60 |
| Nos | | | | 5628 | 5627 | 5626 |
| For Strap, width | | | | ⅝ | ⅝ | 1 inch. |
| Per dozen | | | | $2.50 | 2.80 | 3.70 |

## DOUBLE SWIVELS



Two Ring or Rope Swivels, ¾ inch ..... per gross $6.20

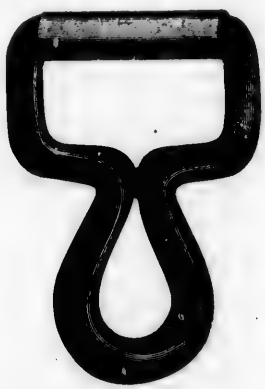
## COCK EYES



No. 10



No. 11



No. 12

| Size | 1¼ | 1½ | 1¾ | 2 inch. |
|---|---|---|---|---|
| No. 10—Little Giant Malleable Screw Cock Eye, with Rollers .... per single doz. | $0.40 | 0.45 | 0.50 | 0.55 |
| " 11—Plain Malleable Screw Cock Eye, with Rollers ..... " " | 0.36 | 0.40 | 0.45 | 0.50 |
| " 12—Wrought Steel Cock Eyes ..... " " | 0.36 | 0.40 | 0.45 | 0.50 |

# HARNESS BUCKLES



## MALLEABLE ROLLER BUCKLES

| Size | | ⅝ | ¾ | ⅞ | 1 | 1¼ | 1½ | 1¾ | 2 inch. |
|---|---|---|---|---|---|---|---|---|---|
| Japanned | per gross | $0.76 | 0.90 | 1.08 | 1.24 | 1.74 | 2.06 | 2.60 | 3.14 |
| XC | " | 0.90 | 1.08 | 1.24 | 1.40 | 2.06 | 2.60 | 3.14 | 3.68 |

Five-eighth inch, two gross in a box; ¾ to 1 inch, one gross; larger, one-half gross.

## BREAST STRAP SLIDES



No. 5—1¾ inch, Japanned ..... per doz. $0.60

## HAME STAPLES



No. 960—Malleable, Polished, ⅜ inch, with Burrs, per gross ..... $0.30

## HAME TUG CLIPS



No. 962—Wrought, Polished, ⅜ inch ..... per doz 0.30

## HORSE BITS



No. 1—XC Jointed Mouth, Forged Loose Ring Bits, ⅝ inch diameter ..... per doz. 0.90
" 2— " " " " " " ⅞ " " ..... " 1.00



No. 3—XC Stiff Mouth, Wrought Loose Ring Bits, ⅝ inch diameter ..... per doz. 0.80
" 4— " " " " " " ⅞ " " ..... " 0.90

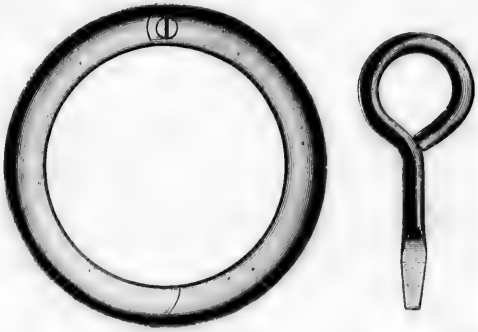
# BULL SNAPS AND RINGS



No. 500. Full size cut.



Showing the Bull Snap Attached to Handle



| | | |
|---|---|---|
| No. **11**—Steel, 2½ inch diameter | per doz. | $1.50 |
| " **12**— " 3 " " | " | 1.65 |
| " **20**—Copper, 2 " " | " | 1.75 |
| " **21**— " 2½ " " | " | 1.90 |
| " **22**— " 3 " " | " | 2.20 |

## OX BALLS



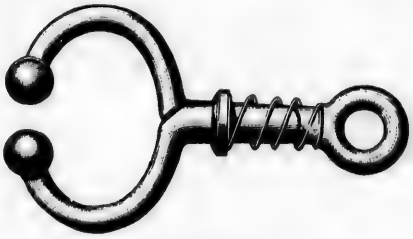
No. 13



No. 14

| | | |
|---|---|---|
| No. **13**—Cast Brass | per gross | 6.75 |
| " **14**— " | " | 8.25 |

## CATTLE LEADERS



No. 52. Half size cut.

| | | |
|---|---|---|
| No. **51**—Cattle Leaders, Bright, with Brass Wire Spring, length over all 4½ inches | per doz. | 0.80 |
| " **52**— " " " " | " | 0.95 |
| " **500**—Bull Snaps, with 3 feet Chain and Ring on End, and 3 Screw Eyes, without Handle | " | 5.10 |

# STEEL WIRE CHAIN

**BROWN'S PATENT**



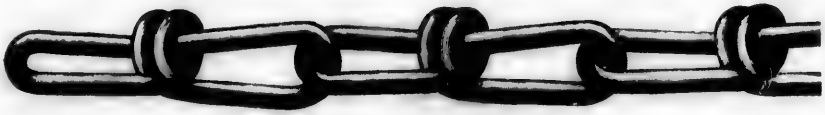
**No. 2**



**No. 1**



**No. 0**



**No. 2-0**



**No. 3-0**



**No. 4-0**



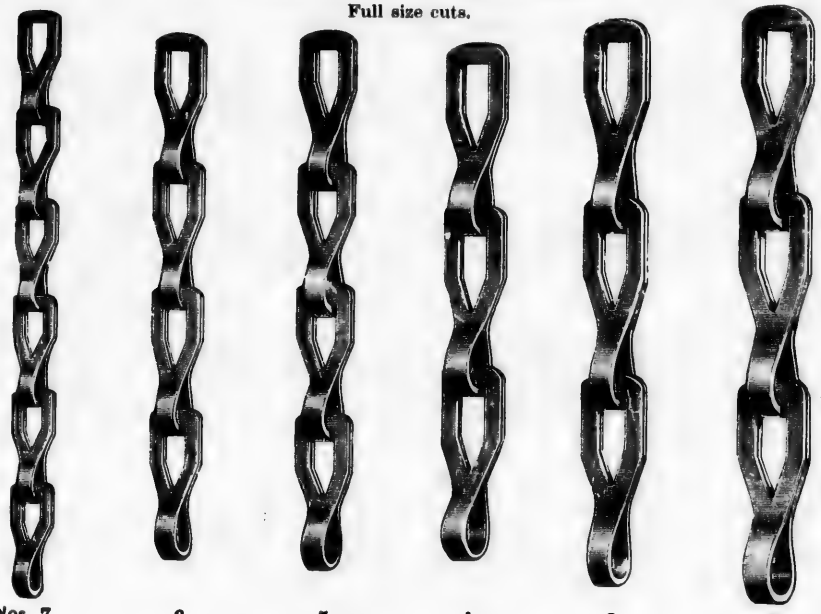
**No. 5-0**

| Trade No. | 7-0 | 6-0 | 5-0 | 4-0 | 3-0 | 2-0 | 0 | 1 | 2 | 4 |
|---|---|---|---|---|---|---|---|---|---|---|
| No. on Wire Gauge | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 14 |
| Approximate Length per lb. | 1.90 | 2¼ | 2.90 | 3¼ | 4¼ | 5 | 6¼ | 8¼ | 10½ | 16⅜ ft. |
| " Breaking Strain, lbs. | 3200 | 2400 | 2100 | 2000 | 1800 | 1500 | 1200 | 1000 | 800 | 450 |
| Price per 100 feet, Bright | $12.50 | 10.50 | 9.50 | 8.85 | 7.75 | 6.75 | 6.00 | 5.25 | 4.65 | 3.50 |
| " " Galvanized | 21.40 | 17.75 | 15.30 | 14.05 | 11.75 | 10.25 | 8.25 | 7.25 | 6.35 | 5.00 |

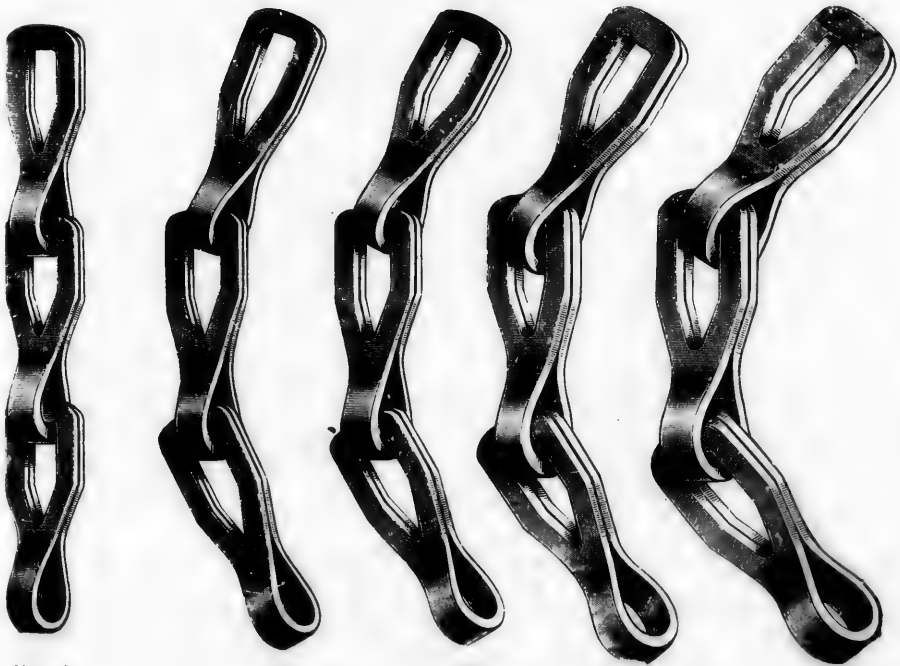
Put up 100 feet in a box, or in kegs of about 100 lbs.

# AMERICAN CHAINS

Full size cuts.



Nos. 7 6 5 4 3 2



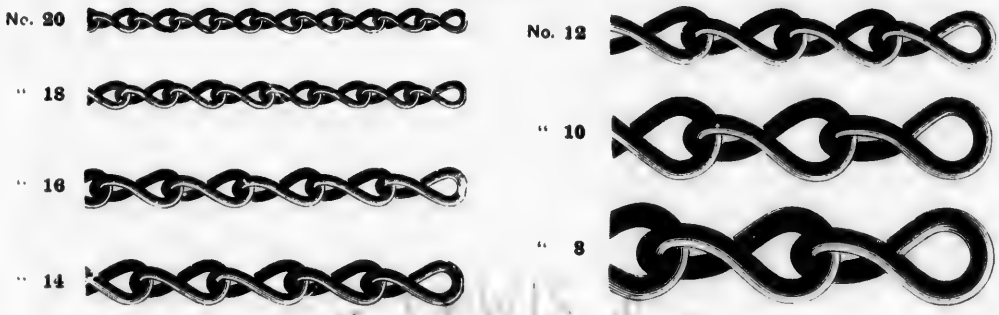
Nos. 1 0 2-0 3 0 4-0

| Nos | 4-0 | 3-0 | 2-0 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Per 100 feet | $8.50 | 7.30 | 6.15 | 5.50 | 4.75 | 4.10 | 3.90 | 3.80 | 3.70 | 3.60 | 3.60 |

One hundred feet in a box.

# JACK CHAIN

## SINGLE LINK




## DOUBLE LINK



| Nos | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Single, Steel ..... per doz. yds. | $0.90 | 0.75 | 0.54 | 0.49 | 0.43 | 0.38 | 0.34 | 0.30 | 0.28 | 0.25 | 0.24 | 0.23 | .... | 0.22 | ... | .... |
| Double, " ..... " | 1.20 | 0.96 | 0.86 | 0.75 | 0.60 | 0.53 | 0.47 | 0.42 | 0.38 | 0.33 | .... | 0.30 | .... | 0.25 | ... | .... |
| Single, Brass..... " | .... | 5.25 | 4.25 | 3.50 | 2.55 | 2.05 | 1.70 | 1.35 | 1.00 | 0.86 | 0.82 | 0.60 | 0.54 | 0.50 | 0.45 | 0.40 |
| Double, " ..... " | .... | .... | .... | 4.25 | 3.45 | 3.00 | 2.15 | 1.90 | 1.50 | 1.20 | 1.00 | 0.75 | 0.65 | 0 62 | 0.60 | 0.60 |

One dozen yards in a box.

# BRASS SAFETY CHAIN



No. 2-0, REGULAR

No. 2-0, PLUMBERS'

| Nos. | 3 | 2 | 1 | 1-0 | 2-0 | 3-0 | 4-0 |
|---|---|---|---|---|---|---|---|
| Regular, Brass ..... per doz. yards | $3.15 | 2.30 | 1.85 | 1.50 | 1.25 | 1.15 | 1.05 |
| Plumbers', " ..... " | .... | 2.30 | 1.85 | 1.50 | 1.25 | .... | .... |
| " Nickel-Plated ..... " | .... | 2.40 | 1.95 | 1.60 | 1.35 | .... | .... |
| Regular, Brass ..... per 100 feet | 9.00 | 6.40 | 5.20 | 4.30 | 3.60 | 3.30 | 4.50 |

One dozen yards in a box; 100 feet on a reel.

# GERMAN COIL CHAIN

Full size cuts.




| Nos. | 3-0 | 2-0 | 0 | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|---|---|---|
| Per 100 feet | $4.65 | 4.15 | 3.85 | 3.45 | 3.25 | 2.95 | 2.95 | 2.95 | 2.95 |

One hundred feet in a package.

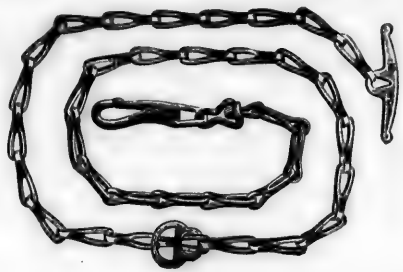
# GERMAN HALTER AND DOG CHAINS



| Nos. | | 3-0 | 2-0 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4½ feet | per doz. | $2.75 | 2.55 | 2.40 | 2.10 | 1.95 | 1.85 | 1.80 | 1.70 | 1.70 | 1.70 | 1.70 |
| 6 " | " | .... | 3.15 | 2.90 | .... | .... | .... | .... | .... | .... | 2.20 | 2.20 |

For cuts showing sizes of Chain, see page 709.

## AMERICAN HALTER AND DOG CHAINS

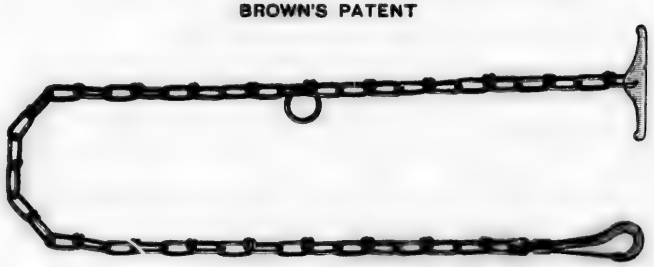


| Nos. | | 3-0 | 2-0 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4½ feet | per doz. | $4.85 | 4.10 | 3.50 | 3.00 | 2.65 | 2.40 | 2.30 | 2.25 | 2.20 | 2.20 |
| 6 " | " | 6.10 | 5.20 | 4.50 | 4.00 | 3.50 | 3.25 | 3.15 | 3.10 | 3.00 | 3.00 |

For cuts showing sizes of Chain, see page 708.

## STEEL WIRE HALTER AND DOG CHAINS

### BROWN'S PATENT



| Nos. | | 3-0 | 2-0 | 0 | 1 | 2 | 4 |
|---|---|---|---|---|---|---|---|
| 4½ feet | per doz. | $4.30 | 4.10 | 3.80 | 3.60 | 3.20 | 2.80 |
| 6 " | " | 5.30 | 4.80 | 4.30 | 4.00 | 3.50 | 3.00 |
| 9 " with Centre Swivel | " | 7.40 | 6.80 | 6.20 | 5.60 | 5.10 | 4.40 |

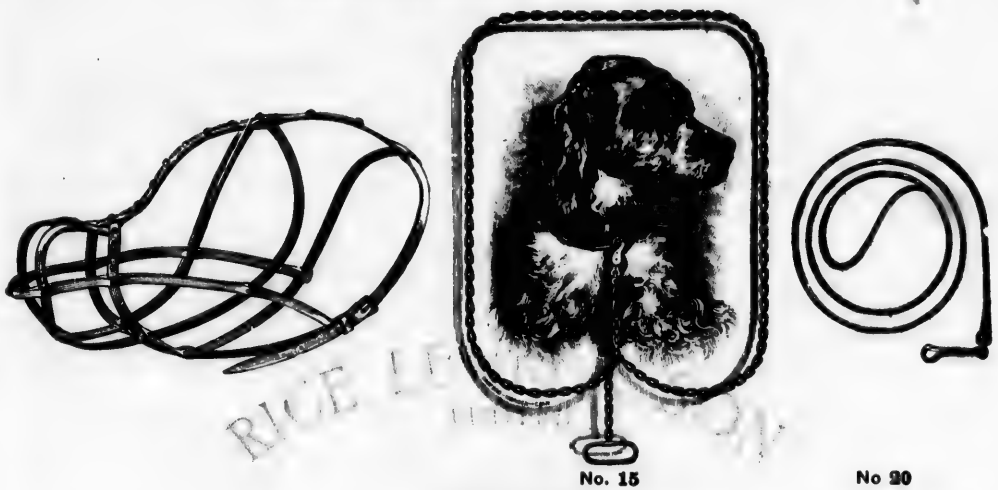
## KENNEL CHAINS

| Nos. | | 3-0 | 2-0 | 0 | 1 | 2 |
|---|---|---|---|---|---|---|
| 4½ feet | per doz. | $5.75 | 5.00 | 4.50 | 4.00 | 3.50 |
| 6 " | " | 7.25 | 6.25 | 5.50 | 5.00 | 4.50 |
| 9 " | " | 9.00 | 7.75 | 6.75 | 6.25 | 5.50 |

These Chains are made similar to the Dog and Halter Chains, but instead of Toggle at one end, are fitted at each end with Swivel Snap.

For cuts showing sizes of Chain, see page 707.

# DOG MUZZLES AND LEADS



No. 15 — No 20

## DOG MUZZLES

| Nos. | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|
| Heavy English Sole Leather.....per doz. | $5.00 | 5.65 | 6.30 | 7.25 | 8.25 | 9.50 | 10.60 | 12.80 |

Nos. 3 and 4 suitable for Terriers and Cocker Spaniels; Nos. 5 and 6 for Collies and Hounds; Nos. 7 and 8 for small Mastiffs and St. Bernards; Nos. 9 and 10 for very large Dogs.

## DOG LEADS

| | | | |
|---|---|---|---|
| No. 15—Nickeled Steel Wire Chain, with Swivel Snap and Hand Hold, Length 4 feet | per doz. | | $1.80 |
| " 20—Round Leather, with Loop and Brass Swivel Snap, Length 4 feet | " | | 3.50 |
| " 30— " " " Steel " " 4 " | " | | 5.75 |
| " 65—Flat " ¾ inch, with Loop and Steel Swivel Snap, Length 4 feet | " | | 4.25 |
| " 76— " " ¾ " " " " " 4 " | " | | 5.00 |

## DOG COUPLERS

| Length | Light. 12 | Medium. 13 | Heavy. 14 inch. |
|---|---|---|---|
| No. 40—Flat Stamped Chain, with 2 Swivels.....per doz. | $3.00 | 3.50 | 4.25 |
| " 42—Curb Chain, with Brass Ring, Swivel in Centre..... " | 7.50 | 8.00 | 9.00 |
| " 48—Steel Chain, with 2 Swivel Snaps, Ring in Centre..... " | .... | .... | 4.50 |

## BENCH SHOW CHAINS

Nickel-Plated, 3½ feet, with 3 Swivels and 2 Snaps.

| No. | Light. 1 | Medium. 2 | Medium Heavy. 3 | Heavy. 4 |
|---|---|---|---|---|
| No. 50—Steel Wire Chain.....per doz. | $4.50 | 5.60 | .... | 7.00 |
| " 52—Curb Chain, Brazed Links (English)..... " | 10.80 | 13.00 | 14.40 | 18.00 |

## DOG WHIPS



| | |
|---|---|
| No. 80—Wood Handle, Mounted with Horn Whistle, Plaited Lash | each $1.20 |
| " 78—Wood Handle, Mounted with Horn Dog's Head Whistle, Plaited Lash | " 1.70 |
| " 70—Plaited Leather Dog Lash, with Swivel Snap | " 0.60 |
| " 75— " Rawhide " " " | " 0.75 |

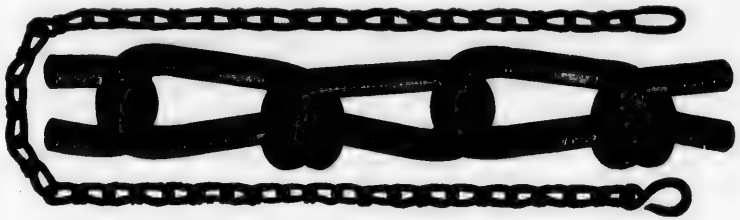
# ENGLISH TRACE CHAINS

### STRAIGHT OR TWISTED LINKS



| | | | | | |
|---|---|---|---|---|---|
| Size | 3½ x 10 x 1 | 3½ x 10 x 2 | 3½ x 10 x 3 | 3½ x 10 x 4 | inch. |
| Per dozen pairs | $7.00 | 5.75 | 5.00 | 4.60 | |
| Size | 7 x 12 x 1 | 7 x 12 x 2 | 7 x 10 x 3 | 7 x 10 x 4 | inch. |
| Per dozen pairs | $14.00 | 12.25 | 9.50 | 9.00 | |

### BLUE TEMPERED STEEL TRACE CHAINS



| | | | | | |
|---|---|---|---|---|---|
| Length | 3½ | 6½ | 7 | 7½ | feet. |
| Per pair | $0.60 | 0.85 | 0.90 | 0.96 | |

Half-dozen pairs in a box.

### AMERICAN TRACE CHAINS

7 feet ..... per pair $0.90

### POST CHAINS



| | | | |
|---|---|---|---|
| Nos. | | 0 | 1 |
| 2½ feet | per doz. | $2.70 | 2.60 |

### SPECIAL TIE CHAINS

| | | |
|---|---|---|
| No. | | 2 |
| Bright, 7 feet long | per doz. | $5.00 |
| Nickeled, 7 " | " | 7.00 |

These Chains are made with a Swivel Snap at each end. The Snap will Catch any Link.

### TIE-OUT CHAINS

| Nos. | | 1 | 0 | 2-0 | 3-0 |
|---|---|---|---|---|---|
| 20 feet, 2 Swivels | per doz. | $13.50 | 15.00 | 17.00 | 20.00 |
| 30 " 2 " | " | 19.00 | 21.00 | 24.50 | 28.00 |
| 40 " 2 " | " | 24.00 | 28.00 | 32.00 | 37.00 |
| 50 " 3 " | " | 30.00 | 33.00 | 39.00 | 46.00 |
| 60 " 3 " | " | 35.00 | 39.00 | 45.00 | 52.00 |
| 75 " 3 " | " | 40.00 | 45.00 | 52.00 | 59.00 |
| 100 " 4 " | " | 53.00 | 60.00 | 69.00 | 79.00 |

These Chains have Stake Rings, Swivels and a Swivel Snap. They are the best Chains on the market for tethering cattle.

For Cuts showing Sizes of Chains, see page 707.

# STEEL BREAST CHAINS





Size..... 28 inch.
American Pattern, Bright Steel.....per pair $0.60

## GREENING'S COW TIES

### BROWN'S PATENT STEEL CHAIN



OPEN RING



CLOSED RING



THREE CHAIN

| Nos | | 5-0 | 4-0 | 3-0 | 2-0 | 0 | 1 |
|---|---|---|---|---|---|---|---|
| Open Ring | per doz. | $5.00 | 4.10 | 3.30 | 3.00 | 2.80 | 2.25 |
| Small Closed Ring (2½ inch diameter) | " | 5.00 | 4.10 | 3.30 | 3.00 | 2.80 | 2.25 |
| Large " " (4 " " ) | " | 5.00 | 4.10 | 3.30 | 3.00 | 2.80 | 2.25 |
| Three Chain (or Ohio Pattern) | " | 5.00 | 4.10 | 3.30 | 3.00 | 2.80 | 2.25 |

Put up ¼ dozen in a box, 12 dozen in a case. Closed Ring Cow Ties are made with two sizes of Rings, 2½ and 4 inch diameter. 2½ inch Ring will be sent unless otherwise ordered. For full size cut of Link, see page 707.

# AMERICAN COW TIES



CLOSED RING
SHOWING STALL FIXTURE



OPEN RING



THREE CHAIN

### CLOSED RING

| | 4-0 | 3-0 | 2-0 | 0 |
|---|---|---|---|---|
| Nos. | | | | |
| Per dozen | $4.75 | 4.00 | 3.50 | 3.25 |

### OPEN RING

| | 4-0 | 3-0 | 2-0 | 0 |
|---|---|---|---|---|
| Nos. | | | | |
| Per dozen | $4.75 | 4.00 | 3.50 | 3.25 |

### THREE CHAIN

or Ohio Pattern, with two Toggles.

| | 4-0 | 3-0 | 2-0 | 0 |
|---|---|---|---|---|
| Nos. | | | | |
| Per dozen | $4.50 | 3.75 | 3.25 | 3.00 |

For Cuts showing Sizes of Chains, see page 708.

## STALL FIXTURES

Stall Fixtures only, as shown with Closed Ring Cow Tie ..... .....without Tie, per doz. $1.50

# ENGLISH COW TIES



CLOSED RING



OPEN RING



THREE CHAIN

## CLOSED RING

| Nos | 21 | 22 | 23 | 31 | 32 | 33 |
|---|---|---|---|---|---|---|
| Size of Ring, inside diameter | $\frac{1}{4}$ x 2$\frac{1}{2}$ | $\frac{7}{16}$ x 2$\frac{1}{2}$ | $\frac{3}{8}$ x 2$\frac{1}{2}$ | $\frac{1}{4}$ x 4 | $\frac{7}{16}$ x 4 | $\frac{3}{8}$ x 4 inch. |
| Price ..... per doz. | $4.40 | 3.75 | 2.75 | 4.55 | 3.90 | 2.90 |

Nos. 21, 22, 31 and 32 have 5 Close Twisted Links between Ring and Swivel; Nos. 23 and 33 have 4, all supplied with Toggle Fastenings.

## OPEN RING

| Nos | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| Size of Ring, outside diameter | $\frac{1}{2}$ x 5$\frac{1}{2}$ | $\frac{7}{16}$ x 5 | $\frac{3}{8}$ x 4$\frac{1}{2}$ | $\frac{1}{4}$ x 4$\frac{1}{2}$ | $\frac{1}{16}$ x 4 inch. |
| Price ..... per doz. | $5.50 | 4.80 | 3.60 | 3.20 | 2.55 |

Nos. 1 and 2 have 5 Close Twisted Links between Ring and Swivel; No. 3 has 4; Nos. 4 and 5 have 1, 2-inch Straight Link, all supplied with Toggle Fastenings.

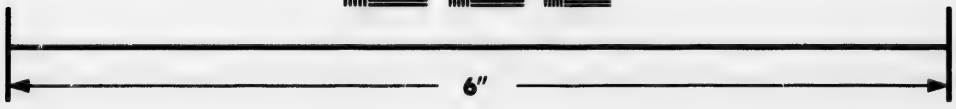
## THREE CHAIN OR WALTON PATTERN

| Nos | 7 | 17 | 27 | 37 |
|---|---|---|---|---|
| Price ..... per doz | $3.00 | 3.50 | 4.25 | 5.75 |

Supplied with Toggle Fastenings.

# IMAGE EVALUATION
# TEST TARGET (MT-3)

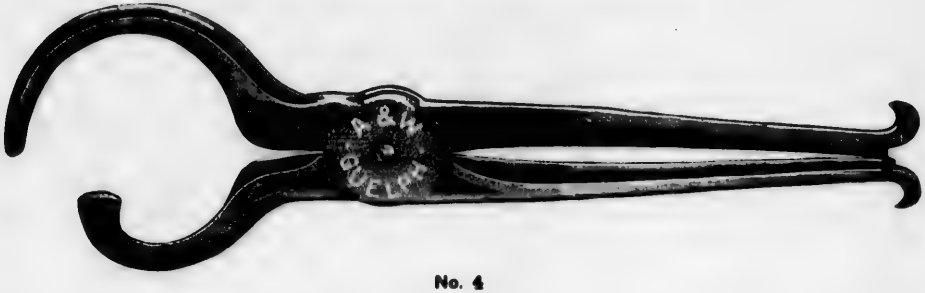



Photographic
Sciences
Corporation

23 WEST MAIN STREET
WEBSTER, N.Y. 14580
(716) 872-4503

# HOG TONGS AND RINGERS




No. 4

No. 4—Hill's Pattern Hog Tongs, Malleable Iron.....per doz. $4.30

Half dozen in a box.

## ADJUSTABLE HOG RINGER



No. 1—Adjustable Hog Ringers.....per doz. 1.05

One dozen in a box.

## COPPERED STEEL WIRE HOG RINGS




Nos. 1 2 3

Nos. 1, 2 or 3.....per 1000 0.60

One hundred in a box.

# ECONOMY COBBLERS




**A Complete Outfit of Tools and Materials for Boot and Shoe Repairing.**

Price.....per doz. sets $9.00

CONTENTS.—Iron Stand, Last for Men's, Boys' and Woman's Work, Shoe Hammer, Shoe Knife, Peg Awl and Handle and Wrench, Sewing Awl and Handle, Stabbing Awl and Handle, Package of Heel and Clinch Nails, with directions for half-soling.

## SHOE LASTS



HOME COBBLERS




STAR LASTS AND STAND

Home Cobblers, Japanned, 1 Set in a Box.....per set $1.35

| Nos. | 0 | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Star Lasts, Japanned.....per doz. | $0.70 | 0.88 | 0.95 | 1.05 | 1.50 | 1.75 |

Star Last Stands, Japanned.....per doz. $1.95

# TRUCKS



**WAREHOUSE TRUCKS**
New York Pattern, Half Ironed.



**RAILROAD TRUCKS**
Western Pattern, Heavy Full Ironed.

## STORE AND WAREHOUSE TRUCKS

New York Pattern, Half Ironed, Axle Bearings Turned, Wheels Bored True to Centre.

| | | | | | | | | | | | | Each. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. 1—Length 48 inches, | width at Nose 13 inches, | width at Upper Bar 18 inches, | size of Wheel 6½x1¼ inches | | | | | | | | | $4.15 |
| " 2— " 53 " | " 14 " | " 19 " | " 7½x2 " | | | | | | | | | 5.75 |
| " 3— " 56 " | " 15 " | " 20 " | " 9 x2½ " | | | | | | | | | 7.50 |

## EXTRA HEAVY RAILROAD TRUCKS

Western Pattern, Full Ironed, One Centre Strap Welded to Nose, Axle Bearings Turned, Wheels Bored True to Centre.

No. 4—Length 60 inches, width of Truck 24 inches, diameter of Wheels 11 inches, weight 128 lbs..... each 15.00



**BAG TRUCK**
No. 10, Cast Iron Nose.



**HANDY TRUCK**
No. 11, Half Ironed.



**HOTEL TRUCK**
Nos. 21 and 22, Rubber-Banded Wheels.

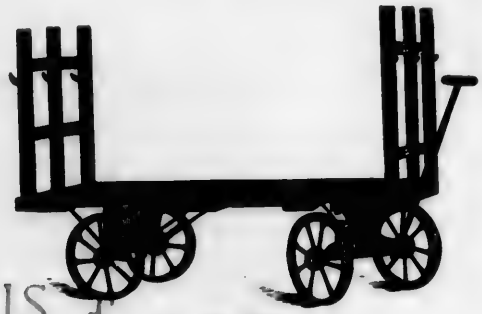
| | | | | | | | | | | | | Each. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. 10—Bag | Truck, | length | 42 in., | width at Nose 11 in., | width at Upper Bar 17 in., | diam. of Wheels 6 in.... | $ 3.15 |
| " 11—Handy | " | " | 46 " | " 12 " | " 17 " | " 6 " ... | 2.80 |
| " 21—Hotel | " | " | 46 " | width 19 in., with Rubber-Banded Wheels 6½ in. diam. ..... | 10.00 |
| " 22— " | " | " | 52 " | " 20 " | " 7½ " | " ..... | 12.60 |
| " 12—Barrel | " | " | 53 " | width at Nose 14 in., | width at Upper Bar 19 in., | diam. of Wheels 7½ in... | 7.40 |
| " 13— " | " | " | 56 " | " 15 " | " 20 " | " 9 " .. | 10.25 |

Barrel Trucks, New York Pattern, Three Curved Iron Cross Bars, Upper Bar Wood, Strapped up.

# FACTORY TRUCKS AND EXPRESS WAGONS



No. 630



No. 631

ICE LEWIS & SON

No. **630**—Factory Truck, Platform 27 x 48 inches, Iron-Strapped around the outside, with 6 Removable Stakes 36 inches high, can be used at either ends or sides.....each $21.35

" **631**—Express Wagon, Light Pattern, Platform 84 x 30 inches, 22 inches high, End Rails 36 inches high, made of the best material, Strongly Ironed and Braced, Painted.....each 49.50

## BAGGAGE BARROWS



No. 629

No. **629**—Baggage Barrows, Light Pattern, Covered Top, Platform 84 x 24 inches, Wheels 14 x 2½ inches, each 28 75

TORONTO, ONT.

## GIANT CAR PUSHERS

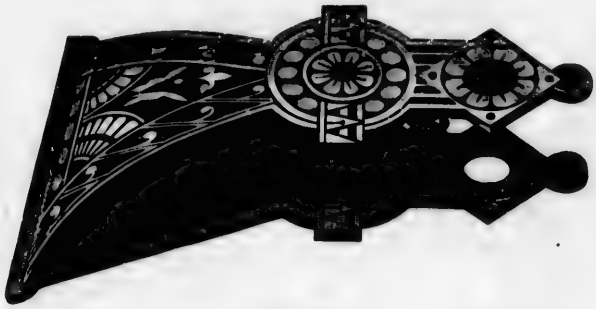


No. 559

No. **559**—Giant Car Pusher, Weight 24 lbs., easy to handle.....each 8.75

# PAPER CLIPS

**Full size cut.**



**No. 240**

No. **240**—Tuscan Bronzed.....per doz. $0.95

## PAPER FILES

**Half size cuts.**



**No. 24**



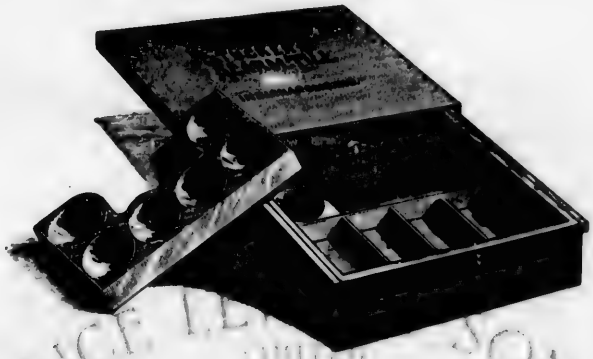
**No. 37**



**No. 34**

| | | |
|---|---|---|
| No. **24**—Tuscan Bronzed, Paper File Hooks | per doz. | 0.70 |
| " **37**—Berlin " " Files | " | 1.25 |
| " **34**—Tuscan " " File Hooks | " | 0.90 |

# ALARM TILLS



No. **2**—Tucker's Alarm Tills, or Money Drawers, Ash Front, Varnished, 4 Spaces for Bills, Sliding Tray, with 6 Cups.....each $2.25

" **3**—Miles' Alarm Tills, Hardwood Front, Varnished, 4 Spaces for Bills, Sliding Tray, with 6 Cups. . " 3.00

Half-dozen in a crate.

## TWINE BOXES

Half size cuts.



No. 76



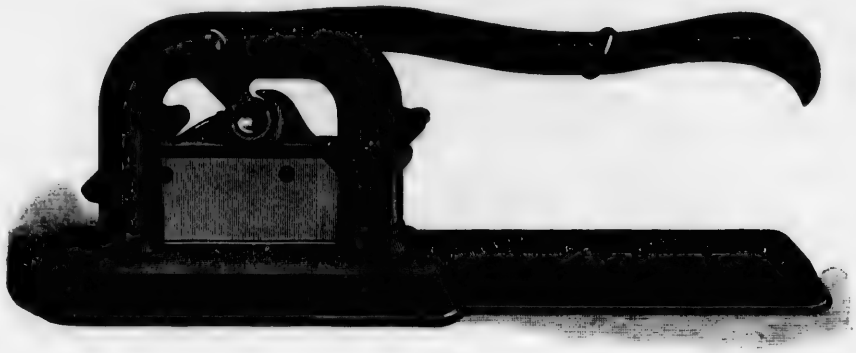
No. 113

No. **76**—Berlin Bronzed.....per doz. $7.50

" **113**—Copper Bronze, large, Patent Catch..... " 3.00

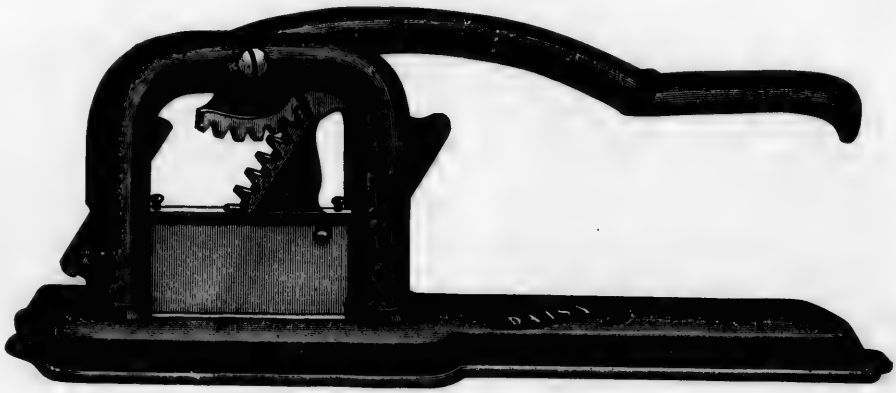
No. 76, one-sixth dozen in a box; No. 113, quarter dozen.

# TOBACCO CUTTERS



No. 12

No. 12—"Clipper," Bronzed and Ornamented, opening ⅜ x 3¼ inches, whole length 16 inches ..... .....each $1.65

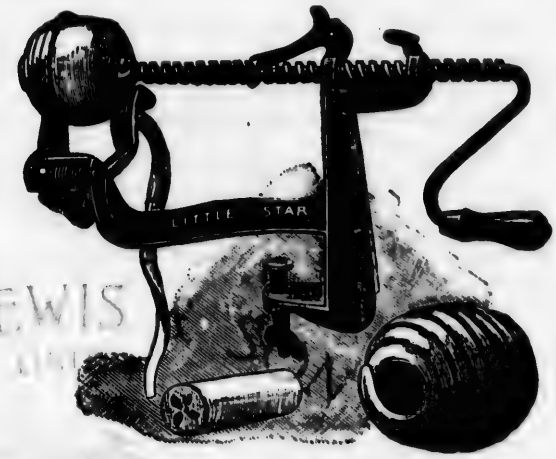


No. 21

No. 21—"Daisy," Bronzed and Ornamented, with Gauge, opening 1¾ x 4 inches, whole length 17¾ inches..each 2.00

# APPLE PARERS

## HUDSON'S



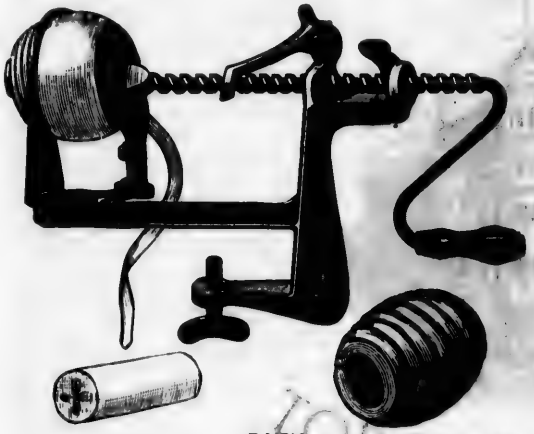

LITTLE STAR

With Push-off, Combined Parer, Corer and Slicer.

Per dozen, $7.50.

The Parer Knife always faces the fruit when brought against it. The machine is so arranged that parings and juice cannot fall upon it.

RICE LEWIS



DAISY

With Push-off, Combined Parer, Corer and Slicer.

Per dozen, $7.15.

TORONTO



ROCKING TABLE

With Push-off and Improved Clamping Device.

Per dozen, $7.50.

This machine is so arranged that parings and juice cannot fall upon it.

One dozen in a box.

ROCKING TABLE

# PORTABLE PLATFORM SCALES

## WITH BRASS SLIDING POISE AND HEAVY BEVEL EDGE PLATFORM





### WITHOUT WHEELS

| | | | | | | | | | | | Inspection. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. 20— | Capacity | 400 lbs., | Platform | 21 x 15 | inch, | without | Pillar Braces | each | $23.00 | 0.75 |
| " 22— | " | 600 " | " | 25 x 16 | " | " | " | " | 27.00 | 1.00 |
| " 24— | " | 1000 " | " | 26 x 17 | " | " | " | " | 32.00 | 1.00 |
| " 26— | " | 1200 " | " | 28 x 19 | " | " | " | " | 36.00 | 1.00 |
| " 28— | " | 1500 " | " | 28 x 21 | " | with | " | " | 41.00 | 1.00 |
| " 30— | " | 2000 " | " | 31 x 24 | " | " | " | " | 46.00 | 1.00 |
| " 32— | " | 2500 " | " | 31 x 24 | " | " | " | " | 53.00 | 1.50 |

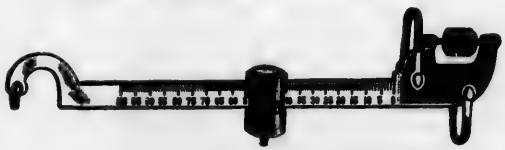
### WITH WHEELS

| | | | | | | | | | | Inspection. |
|---|---|---|---|---|---|---|---|---|---|---|
| No. 34— | Capacity | 400 lbs., | Platform | 21 x 15 | inch, | without | Pillar Braces | each | $26.00 | 0.75 |
| " 36— | " | 600 " | " | 25 x 16 | " | " | " | " | 30.00 | 1.00 |
| " 38— | " | 1000 " | " | 26 x 17 | " | " | " | " | 35.00 | 1.00 |
| " 40— | " | 1200 " | " | 28 x 19 | " | " | " | " | 40.00 | 1.00 |
| " 42— | " | 1500 " | " | 28 x 21 | " | with | " | " | 45.00 | 1.00 |
| " 44— | " | 2000 " | " | 31 x 24 | " | " | " | " | 51.00 | 1.00 |
| " 46— | " | 2500 " | " | 31 x 24 | " | " | " | " | 58.00 | 1.50 |

### WITH WHEELS AND DROP LEVER

| | | | | | | | | | | Inspection. |
|---|---|---|---|---|---|---|---|---|---|---|
| No. 48— | Capacity | 1200 lbs., | Platform | 26 x 17 | inch, | with | Pillar Braces | each | $42.00 | 1.00 |
| " 50— | " | 1500 " | " | 28 x 19 | " | " | " | " | 48.00 | 1.00 |
| " 52— | " | 2000 " | " | 28 x 21 | " | " | " | " | 55.00 | 1.00 |
| " 54— | " | 2500 " | " | 31 x 24 | " | " | " | " | 62.00 | 1.50 |
| " 56— | " | 3000 " | " | 31 x 24 | " | " | " | " | 70.00 | 1.50 |

### BRASS SLIDING POISE BEAM



### HEAVY BEVEL EDGE PLATFORM



**Furnished with these Platform Scales.**

# MEAT, FISH AND DAIRY SCALES

### MEAT AND FISH SCALE

With Brass Sliding Poise and Bevel Edge Iron Platform.



#### WITHOUT WHEELS

| | Capacity. | Platform. | Each. | Inspection. |
|---|---|---|---|---|
| No. **110**— | 600 lbs. | 23 x 16 inch..... | $30.00 | 1.00 |
| " **112**— | 1000 " | 25 x 17 " ..... | 35.00 | 1.00 |

#### WITH WHEELS

| | Capacity. | Platform. | Each. | Inspection. |
|---|---|---|---|---|
| No. **114**— | 600 lbs. | 23 x 16 inch..... | $33.00 | 1.00 |
| " **116**— | 1000 " | 25 x 17 " ..... | 38.00 | 1.00 |

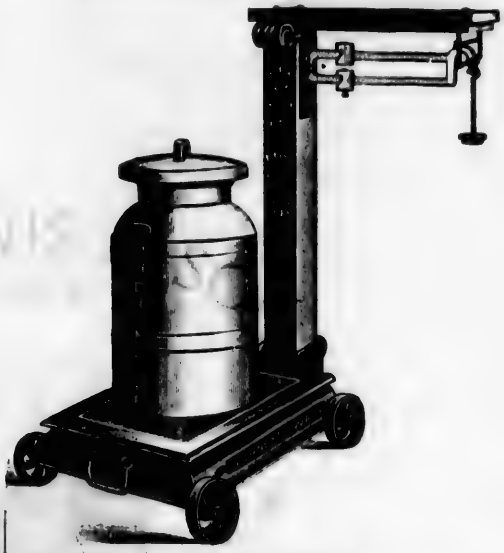
#### GALVANIZED SCALES

All the Iron Work inside and outside Galvanized.

| | |
|---|---|
| **600** lb. Fish Scale, additional for Galvanizing. . | $11.00 |
| **1000** " " " " ... | 13.00 |

### DAIRY SCALE

With Double Beam and Brass Sliding Poises.

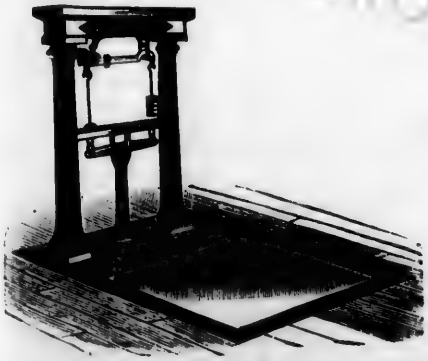


#### WITHOUT WHEELS

| | Capacity. | Platform. | Each. | Inspection. |
|---|---|---|---|---|
| No. **102**— | 600 lbs. | 25 x 16 inch..... | $30.00 | 1.00 |
| " **104**— | 1000 " | 26 x 17 " ..... | 35.00 | 1.00 |

#### WITH WHEELS

| | Capacity. | Platform. | Each. | Inspection. |
|---|---|---|---|---|
| No. **106**— | 600 lbs. | 25 x 16 inch..... | $33.00 | 1.00 |
| " **108**— | 1000 " | 26 x 17 " ..... | 38.00 | 1.00 |



WITH TWO IRON PILLARS

### DORMANT WAREHOUSE SCALE

With Brass Sliding Poise and Square Edge Platform.

| | Capacity. | Platform. | Each. | Inspection. |
|---|---|---|---|---|
| No. **96**— | 5000 lbs. | 48 x 48 inch.. ..... | $160.00 | 2.00 |
| " **98**— | 4000 " | 42 x 44 " ..... | 130.00 | 1.50 |
| " **100**— | 3000 " | 31 x 40 " ..... | 115.00 | 1.50 |

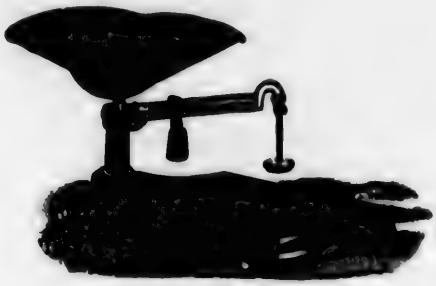
#### EXTRA FOR DOUBLE BEAMS

Add $6.00 to List on Nos. 98 and 100; $8.00 to List on No. 96.

# CHAMPION AND BATHROOM SCALES



CHAMPION EVEN BALANCE SCALE



CHAMPION UNION SCALE

| | | | | Inspection. |
|---|---|---|---|---|
| No. 600—Champion Even Balance, with Tin Scoop, Capacity ½ oz. to 4 lbs. | each | $ 5.00 | 0.50 |
| " 601— " " " " " " " " 10 " | " | 7.50 | 0.50 |
| " 602— " Union Scale, " " " " " 240 " | " | 11.00 | 0.50 |



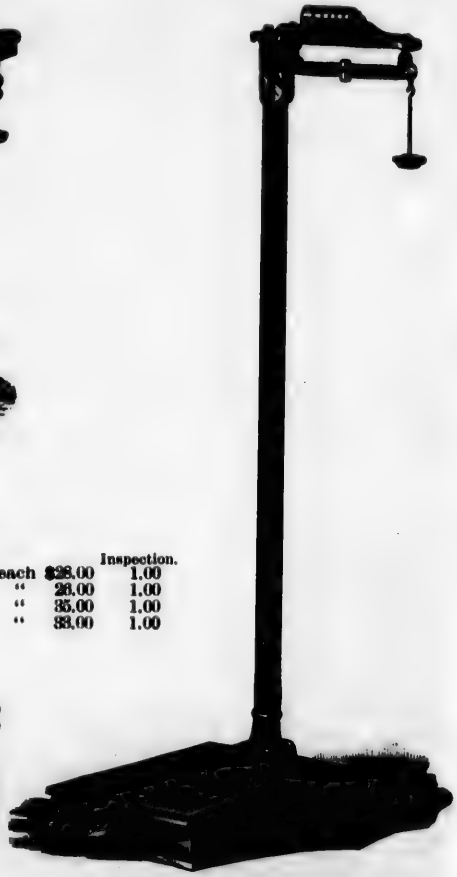
CHAMPION PLATFORM SCALES

| | | | Inspection. |
|---|---|---|---|
| No. 603—Champion Platform, Cap. 600 lbs., with Wheels | each | $28.00 | 1.00 |
| " 604— " " " 600 " without " | " | 26.00 | 1.00 |
| " 605— " " " 1200 " with " | " | 35.00 | 1.00 |
| " 606— " " " 1200 " without " | " | 33.00 | 1.00 |

BATHROOM SCALES

| | | |
|---|---|---|
| No. 607—With Measuring Rod | each | $35.00 |
| " 608—Without " " | " | 30.00 |

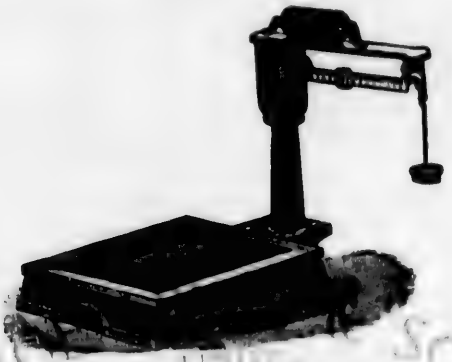
This Scale is suitable for use in bathrooms, also for doctors' and insurance offices. It is constructed of Iron and Brass throughout, finished in Pale Blue Enamel, with Nickel-Plated Beam and Sliding Poise. A tall Pillar places the Beam on a level with the eye. Capacity 250 lbs., by one ounce divisions; platform 14½ x 10 inches.



BATHROOM SCALES

# PLATFORM COUNTER SCALE

**SLIDING POISE**

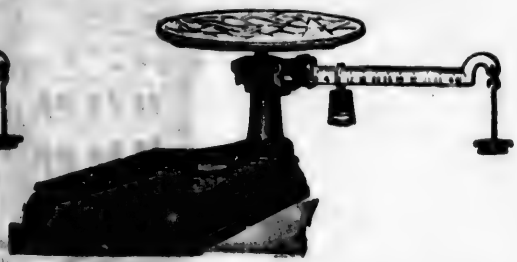


| | | | Inspection. |
|---|---|---|---|
| No. **500**—Capacity 2 oz. to 240 lbs., Platform 19 x 13 | each | $20.00 | 0.50 |

## UNION OR FAMILY SCALE



## UNION MEAT SCALE



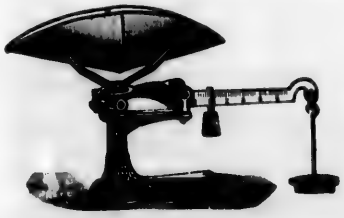
### UNION OR FAMILY SCALE

| | | | Inspection. |
|---|---|---|---|
| No. **502**—Capacity ½ oz. to 240 lbs., Tin Scoop | each | $12.00 | 0.50 |
| " **504**— " ½ " 240 " Brass Scoop | " | 13.00 | 0.50 |
| " **506**— " ½ " 240 " Double Beam, Tin Scoop | " | 13.00 | 0.50 |
| " **508**— " ½ " 240 " " Brass Scoop | " | 14.00 | 0.50 |

### UNION MEAT SCALE

| | | | Inspection. |
|---|---|---|---|
| No. **510**—Capacity ½ oz. to 240 lbs., Round or Square Porcelain Plate | each | $14.00 | 0.50 |
| " **512**— " ½ " 240 " " " Double Beam | " | 15.00 | 0.50 |

For Sliding Poise, add $1.00 extra to List on S. B. Scales. Sliding Poise not furnished on D. B. Scale.

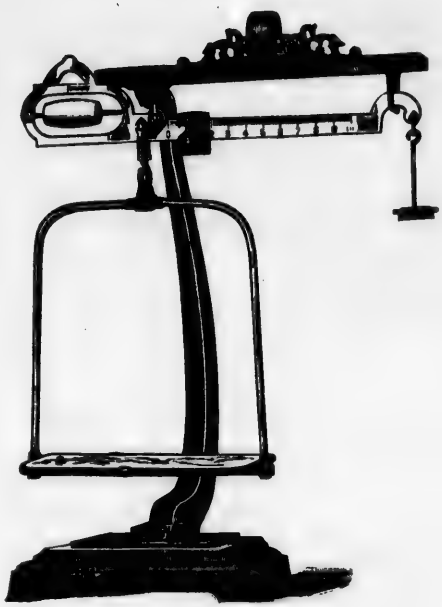


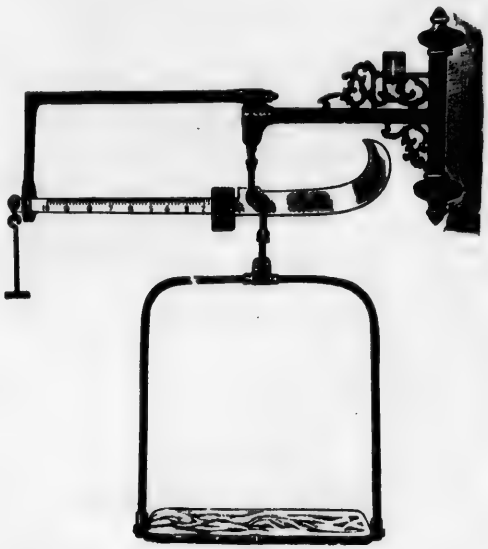
### DRUGGISTS' SCALE

| | | Inspection. |
|---|---|---|
| No. **494**—Capacity 1 drachm to 8 lbs., Tin Scoop, each | $10.00 | 0.50 |
| " **496**—Capacity 1 drachm to 8 lbs., Brass Scoop, each | 11.00 | 0.50 |

# BUTCHERS' SCALES

## WITH BRASS BEAM AND SLIDING POISE

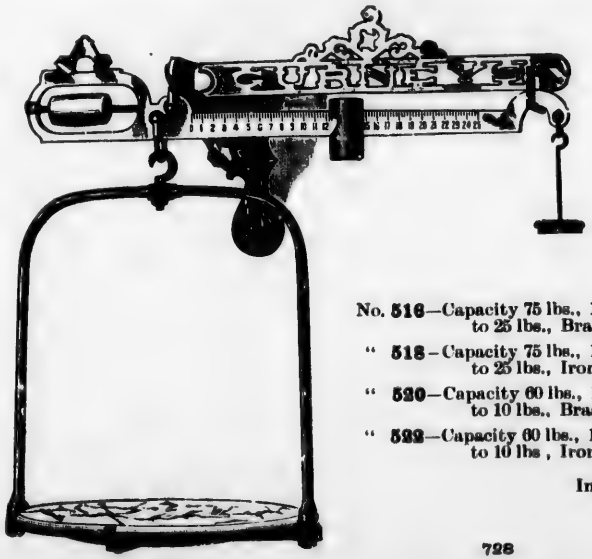




No. **524**—Capacity 50 lbs , Porcelain Plate..each $17.00

No. **528**—Capacity 50 lbs., Porcelain Plate..each $15.00
" **530**— " 50 " Tin Dish..... " 14.00

Inspection, $0.50 each.



No. **516**—Capacity 75 lbs., 15 inch Porcelain Plate, Beam marked to 25 lbs., Brass Weights and Counterpoise .....each $27.00

" **518**—Capacity 75 lbs., 15 inch Porcelain Plate, Beam marked to 25 lbs., Iron Weights and Counterpoise .....each 25.00

" **520**—Capacity 60 lbs., 12 inch Porcelain Plate, Beam marked to 10 lbs., Brass Weights and Counterpoise .....each 21.00

" **522**—Capacity 60 lbs., 12 inch Porcelain Plate, Beam marked to 10 lbs , Iron Weights and Counterpoise ..... each 19.00

Inspection, $0.50 each.

# IMPROVED WEIGH BEAMS

**STEEL BAR**



| Capacity. | | | | | | | | | | Each. | Inspection. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. **554**—100 lbs., | 80 lbs. | Engraved on Beam, | one | 25 lb. | Counterpoise. | | | | | $4.10 | 0.50 |
| " **556**—150 " | 80 " | " | " | 25 " | " | one | 50 lb. | wgt. | | 4.35 | 0.50 |
| " **558**—200 " | 80 " | " | " | 25 " | " | two | 50 " | " | | 4.60 | 0.50 |
| " **560**—250 " | 80 " | " | " | 25 " | " | one | 50 " | " | one 100 lb. wgt. | 4.85 | 0.50 |
| " **562**—300 " | 80 " | " | " | 25 " | " | two | 50 " | " | " 100 " " | 5.10 | 0.50 |
| " **564**—350 " | 100 " | " | " | 100 " | " | one | 50 " | " | " 100 " " | 5.70 | 0.50 |
| " **566**—400 " | 100 " | " | " | 100 " | " | two | 100 " | " | | 6.00 | 0.50 |
| " **568**—500 " | 100 " | " | " | 100 " | " | three | 100 lb. | " | | 6.40 | 0.50 |
| " **570**—600 " | 100 " | " | " | 100 " | " | four | 100 " | " | | 6.80 | 0.75 |

The Counterpoise is sealed and represents the first weight required when hung on beam. This is a handy arrangement for weights, and superior in this respect to any other beam now made.

## PEDLER OR BUTCHER BEAMS

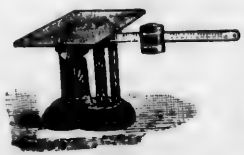
Brass Beam with Sliding Poise.



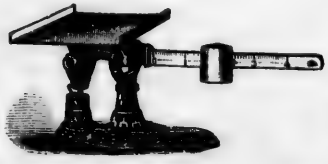

| | | | | | |
|---|---|---|---|---|---|
| No. **538**—Capacity | 25 lbs., | to Weigh by Hand | .... | each | $ 6.00 |
| " **540**— " | 50 " | " " " | .... | " | 7.00 |
| " **542**— " | 60 " | " " " | .... | " | 8.00 |
| " **544**— " | 100 " | " " " | .... | " | 10.00 |
| " **546**— " | 25 " | with Wagon Attachment | | " | 7.00 |
| " **548**— " | 50 " | " " " | " | " | 8.00 |
| " **550**— " | 60 " | " " " | " | " | 9.00 |
| " **552**— " | 100 " | " " " | " | " | 11.00 |

Inspection, each, $0.50.

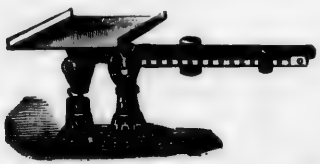
## PACKAGE AND POSTAL SCALES



No. **532**—Capacity ¼ to 8 ozs. Each. $4 00
" **534**— " ¼ " 34 " 6.00



No. **536**—Capacity ½ oz. to 4 lbs. Each. $9.00

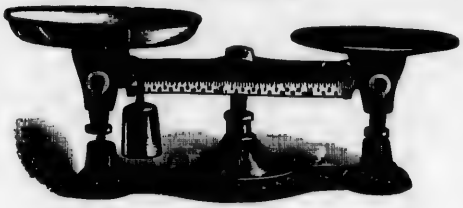


No. **537**—Capacity ¼ oz. to 6 lbs., Double Beam Each. $12.00

Letter Scales do not require to be inspected.

# GROCERS' SCALES

## TEA SCALE



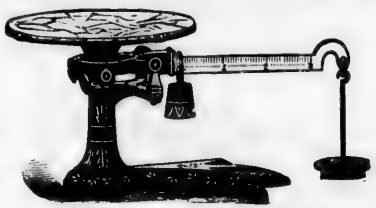
### WITH IRON WEIGHTS AND BRASS DISH

Without Side Beam.

| | Capacity. | Each. | Inspection. |
|---|---|---|---|
| No. 396— | ½ oz. to 17 lbs. | $10.00 | 0.80 |
| " 398— | " 10 " | 7.60 | 0.75 |
| " 400— | " 6 " | 6.90 | 0.70 |
| | With Side Beam. | | |
| No. 402— | ½ oz. to 17 lbs. | 11.40 | 0.50 |
| " 404— | " 10 " | 8.70 | 0.50 |
| " 406— | " 6 " | 7.20 | 0.45 |

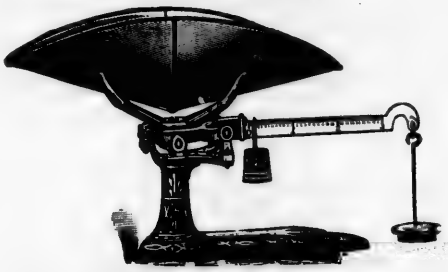
## MEAT SCALE

### WITH ROUND OR SQUARE PORCELAIN PLATE



| | Capacity. | | Each. | Inspection. |
|---|---|---|---|---|
| No. 462— | ½ oz. to 36 lbs., | Notched Beam | $11.00 | 0.50 |
| " 464— | " 36 " | Sliding Poise.. | 12.00 | 0.50 |
| " 466— | " 62 " | Notched Beam | 12.00 | 0.50 |
| " 468— | " 62 " | Sliding Poise.. | 13.00 | 0.50 |

## COUNTER SCALE



### WITH SINGLE BEAM

| | Capacity. | | Each. | Inspection. |
|---|---|---|---|---|
| No. 474— | ½ oz. to 62 lbs., | Tin Scoop..... | $11.00 | 0.50 |
| " 476— | " 62 " | Brass " ..... | 12.00 | 0.50 |
| " 478— | " 62 " | Tin " ..... | 12.00 | 0.50 |
| " 480— | " 62 " | Brass " ..... | 13.00 | 0.50 |

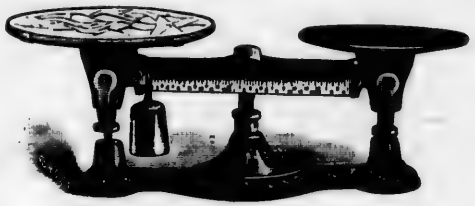
Nos. 474, 476, Notched Beam; Nos. 478, 480, Sliding Poise.

### WITH DOUBLE BEAM

| | | | | |
|---|---|---|---|---|
| No. 482— | ½ oz. to 62 lbs., | Tin Scoop..... | $12.00 | 0.50 |
| " 484— | " 62 " | Brass " ..... | 13.00 | 0.50 |
| " 486— | " 62 " | Tin " ..... | 14.00 | 0.50 |
| " 488— | " 62 " | Brass " ..... | 15.00 | 0.50 |

Nos. 482, 484, Notched Beam; Nos. 486, 488, Sliding Poise.

## BUTTER OR MEAT TRIP SCALE



Price with Iron Weights Complete.

### WITH TWO IRON PLATES

Without Side Beam.

| | Capacity. | Each. | Inspection. |
|---|---|---|---|
| No. 414— | ½ oz. to 17 lbs. | $ 8.50 | 0.80 |
| " 416— | " 10 " | 6.40 | 0.75 |
| " 418— | " 6 " | 5.40 | 0.70 |
| | With Side Beam. | | |
| No. 420— | ½ oz. to 17 lbs. | 9.90 | 0.50 |
| " 422— | " 10 " | 7.50 | 0.50 |
| " 424— | " 6 " | 6.30 | 0.45 |

### WITH BRASS PLATE AND IRON PLATE

Without Side Beam.

| | Capacity. | Each. | Inspection. |
|---|---|---|---|
| No. 426— | ½ oz. to 17 lbs. | $ 9.70 | 0.80 |
| " 428— | " 10 " | 7.30 | 0.75 |
| " 430— | " 6 " | 6.20 | 0.70 |
| | With Side Beam. | | |
| No. 432— | ½ oz. to 17 lbs. | 11.10 | 0.50 |
| " 434— | " 10 " | 8.40 | 0.50 |
| " 436— | " 6 " | 7.20 | 0.45 |

### WITH PORCELAIN PLATE AND IRON PLATE

Without Side Beam.

| | Capacity. | Each. | Inspection. |
|---|---|---|---|
| No. 438— | ½ oz. to 17 lbs. | $11.20 | 0.80 |
| " 440— | " 10 " | 8.40 | 0.75 |
| " 442— | " 6 " | 6.80 | 0.70 |
| | With Side Beam. | | |
| No. 444— | ½ oz. to 17 lbs. | 12.60 | 0.50 |
| " 446— | " 10 " | 9.60 | 0.50 |
| " 448— | " 6 " | 7.80 | 0.45 |

### WITH PORCELAIN PLATE AND BRASS PLATE

Without Side Beam.

| | Capacity. | Each. | Inspection. |
|---|---|---|---|
| No. 450— | ½ oz. to 17 lbs. | $12.30 | 0.80 |
| " 452— | " 10 " | 9.30 | 0.75 |
| " 454— | " 6 " | 7.60 | 0.70 |
| | With Side Beam. | | |
| No. 456— | ½ oz. to 17 lbs. | 13.70 | 0.50 |
| " 458— | " 10 " | 10.50 | 0.50 |
| " 460— | " 6 " | 8.60 | 0.45 |

## COUNTER SCALE



| | Capacity. | | Each. | Inspection. |
|---|---|---|---|---|
| No. 470— | ½ oz. to 36 lbs., | Tin Scoop..... | $10.00 | 0.50 |
| " 472— | " 36 " | Brass Scoop... | 11.00 | 0.50 |

With Double Beam, add $1.00 extra to List.

# EVEN BALANCE SCALES



Without Side Beam, with Iron Weights complete.

### WITH TIN SCOOP

| | Capacity. | Each. | Inspection. |
|---|---|---|---|
| No. 306— | ½ oz. to 10 lbs. | $6.60 | 0.75 |
| " 308— | ½ " 6 " | 5.40 | 0.70 |
| " 310— | ½ " 4 " | 4.20 | 0.55 |

### WITH BRASS SCOOP

| | Capacity. | Each. | Inspection. |
|---|---|---|---|
| No. 318— | ½ oz. to 10 lbs. | $7.80 | 0.75 |
| " 320— | ½ " 6 " | 6.40 | 0.70 |
| " 322— | ½ " 4 " | 5.10 | 0.55 |



With Brass Side Beam, with Iron Weights complete.

### WITH TIN SCOOP

| | Capacity. | Each. | Inspection. |
|---|---|---|---|
| No. 330— | ½ oz. to 10 lbs. | $7.50 | 0.50 |
| " 332— | ½ " 6 " | 6.00 | 0.45 |
| " 334— | ½ " 4 " | 4.80 | 0.30 |

### WITH BRASS SCOOP

| | Capacity. | Each. | Inspection. |
|---|---|---|---|
| No. 342— | ½ oz. to 10 lbs. | $8.70 | 0.50 |
| " 344— | ½ " 6 " | 7.00 | 0.45 |
| " 346— | ½ " 4 " | 5.70 | 0.30 |

# GROCERS' TRIP SCALES



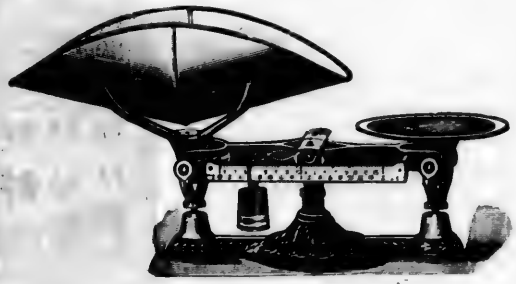
Without Side Beam, with Iron Weights complete.

### WITH TIN SCOOP

| | Capacity. | Each. | Inspection. |
|---|---|---|---|
| No. 354— | ½ oz. to 17 lbs. | $8.50 | 0.80 |
| " 356— | ½ " 10 " | 6.40 | 0.75 |
| " 358— | ½ " 6 " | 5.40 | 0.70 |

### WITH BRASS SCOOP

| | Capacity. | Each. | Inspection. |
|---|---|---|---|
| No. 366— | ½ oz. to 17 lbs. | $10.00 | 0.80 |
| " 368— | ½ " 10 " | 7.60 | 0.75 |
| " 370— | ½ " 6 " | 6.30 | 0.70 |



With Brass Side Beam, with Iron Weights complete.

### WITH TIN SCOOP

| | Capacity. | Each. | Inspection. |
|---|---|---|---|
| No. 378— | ½ oz. to 17 lbs. | $9.90 | 0.50 |
| " 380— | ½ " 10 " | 7.50 | 0.50 |
| " 382— | ½ " 6 " | 6.30 | 0.45 |

### WITH BRASS SCOOP

| | Capacity. | Each. | Inspection. |
|---|---|---|---|
| No. 390— | ½ oz. to 17 lbs. | $11.40 | 0.50 |
| " 392— | ½ " 10 " | 8.70 | 0.50 |
| " 394— | ½ " 6 " | 7.20 | 0.45 |

# PACKERS' SCALE



| | | Each. | Inspection. |
|---|---|---|---|
| No. 408— | Capacity 4 lbs., without Weights | $3.40 | 0.20 |
| " 410— | " 4 " with one 1 lb. Weight | 3.60 | 0.25 |
| " 412— | " 4 " " 1 " and one 2 lb. Weight | 3.80 | 0.30 |

# COUNTER SCALES

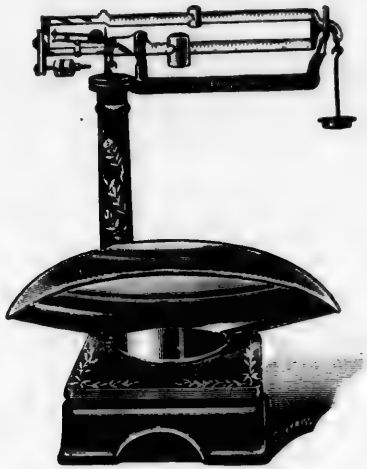



### CANADIAN COUNTER SCALE

Nickel-Plated Beams and Sliding Poises.

Capacity 1 oz. to 200 lbs. Platform 12 x 15 inches.

| | | |
|---|---|---|
| No. **514** —With Brass Scoop | each | $29.00 |
| " **515** — " Tin " | " | 28.00 |
| " **515½**—Without Scoop | " | 27.00 |
| Inspection | " | 0.50 |



### DOMINION COUNTER SCALE

With Patent Automatic Scoop Balance, balancing the Scale automatically with Scoop off or on the Platform; Nickel-Plated Beam, Poises and Scoop Balance; Double Beam marked on both sides.

Capacity 1 oz. to 200 lbs. Platform 11 x 14 inches.

| | | |
|---|---|---|
| No. **516**—With Brass Scoop | each | $30.00 |
| Inspection | " | 0.50 |



## TEA SCALES

### WITH BRASS STANDARD

| | Each. | Inspection. |
|---|---|---|
| No. **490**—Capacity 7 lbs., Height of Standard 31 in. | $20.00 | 0.30 |
| " **492**— " 12 " " " 36 in. | 23.00 | 0.30 |

Priced without Weights.

For price of Weights see page 739.

# BALL SCALES

## TROEMNER'S




No. 44 No. 24

No. 44—Capacity 5 lbs., by quarter ounces, Ornamented, adapted for candy, tea, spices, etc., Brass Scoop, 15 x 8 inches ..... each $14.00

No. 24—Capacity 16 lbs., by quarter ounces, Finished in Gold Bronze and Nickel, Solid Seamless Brass Scoop, 19 x 10¼ inches ..... each 16.80

Inspection, $0.50 each.

## TROEMNER'S ANALYTICAL BALANCES



No. 16 No. 119

| | | | | |
|---|---|---|---|---|
| Capacity each pan ..... | 100 grammes. | | | |
| No. 16 ..... each | $99.00 | | | |
| Capacity each pan | 100 | 200 | 500 grammes. | |
| No. 119 ..... each | $140.25 | 173.25 | 214.50 | |

Will carry a load of 100 grammes in each pan, sensible to 1-10 milligramme, beam is 6 inches long and divided in 1-5 milligramme, has "Agate" bearings, with improved pan arrests and extra wide bows, etc., etc. French polished mahogany case with counterpoised door. This Balance is especially desirable for students' use in colleges, universities, etc., etc.

Balances 100 grammes in each pan, sensible to 1-20 milligramme, beam 10 in. divided into 1-10 milligramme pans 2½ in., improved arrest for pans, apparatus for specific gravity.

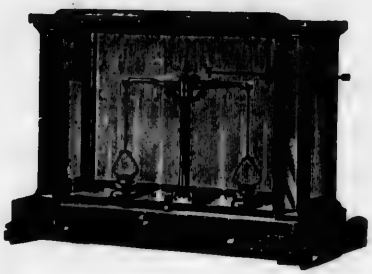
200 grammes, sensible to 1-20 milligramme, beam 12 in. divided into 1-10 milligramme, pans 3 in., all bearings of "Agate" with improved pan arrest and apparatus for specific gravity.

500 grammes, sensible to 1-10 milligramme, all bearings "Agate" planes, has 18 in. beam divided into 1-10 milligramme, 5 in. pans. specific gravity apparatus.

All in fine French polished mahogany case with counterpoised sliding doors.

# ASSAY BALANCES

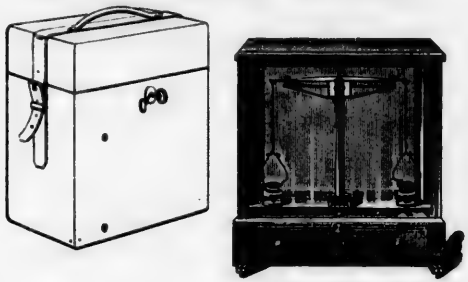
## TROEMNER'S



**No. 134**.....each **$156.75**

Has great sensibility, the needle indicating 40 full divisions for 1 milligramme. Beam graduated into 1-10 milligramme. All bearings of "Agate." Open beam of pure aluminum, has new improved arrest for riders, mahogany case with glass top, bottom of heavy plate glass. Balance is sensible to 1-100 milligramme. In use at the U. S. Assay Offices at New York, St. Louis and the U. S Mints at New Orleans, Philadelphia, etc., etc.

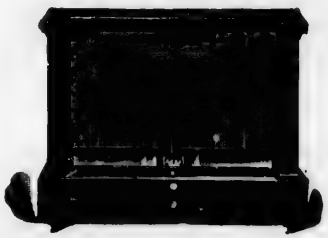
### IMPROVED PORTABLE ASSAY BALANCE



**No. 132**.....each **$115.50**

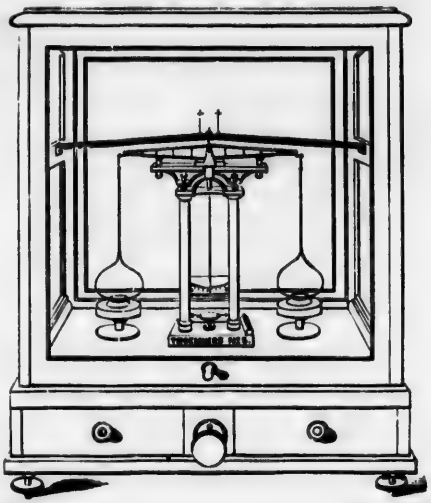
In a very fine French polished case, beam and needle not disturbed when packed up, case 9¼ inches long, 9¼ inches high and 3 inches deep, total weight only 5½ lbs., needle deviates 20 full divisions for 1 milligramme. Balance is provided with rider apparatus, beam divided into 1-10 milligramme. A full set of Platinum weights included.

### PULP SCALE



**No. 26**.....each **$44 55**

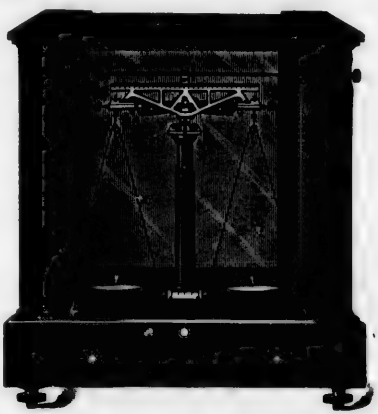
This Balance is in general use in mining sections for weighing pulp, etc., etc. In a French polished mahogany case with counterpoised sliding door, has movable nickel pans, adjusting screws on the beam, eccentric lift, case is provided with glass level and leveling feet. Scale is sensible to 1-30 grain, capacity 2 oz. in each pan.



**No. 130**.....each **$288.75**
**" 138**..... " **247.50**

**No. 138 same as No. 130 in all respects, except it is a "short-arm," the beam is only 6 inches long.**

No. 130 Balance is of the very finest and most delicate construction. Beam and its hangings of pure aluminum, all bearings of "Agate," with agate knives, has double column, with improved eccentric lift, working smooth and regular, releasing the pans first, then the beam, by the one operation; both arms of beam are graduated into equal parts, glass case of the finest finish, and is large and roomy, has glass top to admit light freely, bottom of case is very heavy plate glass. The Balance has the very highest attainable sensibility, the needle indicating 50 divisions for 1 milligramme.



**No. 10—Short Arm**.....each **$206.25**

Short arm pure aluminum beam, agate planes and "Agate" knives, no steel used, both arms of the beam are graduated, the pans also of aluminum, all the brass work is plated with gold, elegant mahogany case (old wood), with heavy plate glass bottom, case has glass top to admit light freely, is provided with improved self-locking pan arrest (push in the button, turn slightly to the left, this locks the arrest). Balance will carry 200 grammes, and is sensible to 1-20 milligramme. All the workmanship is of the very finest. This Balance is in use at U. S. Coast Survey, and by all the large steel and iron works.

# BULLION BALANCES

**TROEMNER'S**



**No. 157**—Without Weights.....each $346.50

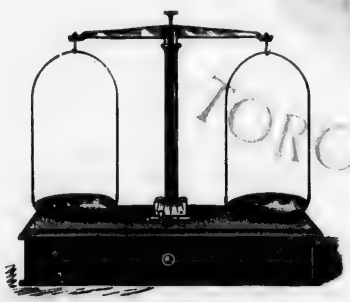
Will carry 2000 ounces in each pan; open brass beam, pans and arches also of brass; has the complex levers to arrest the beam and its hangings, platform is of iron neatly japanned, has adjusting screws on beam, glass level and levelling feet, sensible to 1-200 of an ounce.

**No. 176**—Without Weights.....each $264.00

Same as the above in all respects, capacity is 500 ounces in each pan, and sensible to 1 grain.

**For Price of Weights, see page 739.**

## CHEMICAL SCALE



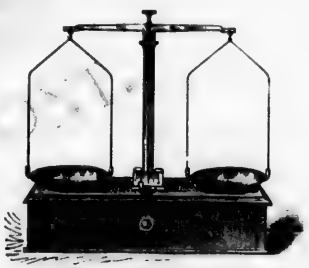
**No. 22**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. **1**—14 inch Beam, 6 inch Pans, Cap. 25 oz. | | | | | | each | $39.60 |
| " **2**—10 | " | 4 | " | " | 10 " | " | 29.70 |
| " **3**— 8½ | " | 3 | " | " | 5 " | " | 24.75 |

For weighing pulp, chemicals, quinine, jewellery, etc. On French polished box with drawer, pans are movable and nickel-plated, has improved lever, beam has adjusting screws, scales sensible to 1-30 grain, all of the finest finish.

**For Price of Weights, see page 739.**

## JEWELLERS' GOLD SCALE



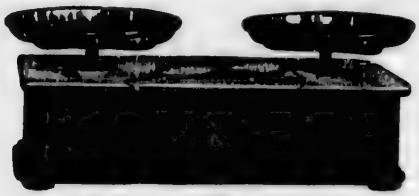
**No. 132**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. **0**—13 inch Beam, 6 inch Pans, Cap. 64 oz. | | | | | | each | $39.60 |
| " **1**—10 | " | 5 | " | " | 32 " | " | 24.75 |
| " **2**— 9 | " | 4 | " | " | 16 " | " | 19.80 |
| " **3**— 7 | " | 3½ | " | " | 8 " | " | 16.50 |
| " **4**— 6½ | " | 3 | " | " | 4 " | " | 13.20 |

For jewellers, brokers, etc. Indicator pointing downward; on a polished walnut box, with drawer; very accurately adjusted; a set of Troy cup weights included.

# DRUGGISTS' BOX SCALES

**TROEMNER'S**



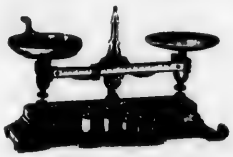
**No. 89**

**In Ebony Box, Gold Lines, Gilt Dial, Heavy Nickel-Plated Pans, Marble Top.**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| No. **0**—7 inch Pans, Capacity 10 lbs., without Weights | | | | | | | | each | $19.80 |
| " **1**—8 " " " 15 " " " | | | | | | | | " | 23.10 |
| " **2**—9 " " " 25 " " " | | | | | | | | " | 26.40 |

Inspection, $0.30 each. For Price of Weights, see page 738.

## DISPENSING SCALE



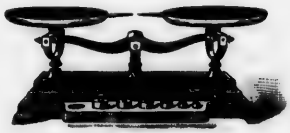
**No. 6**

**No. 6**—3½ inch Pans, Capacity 4 oz.....each $12.00

Scale for rough prescription work, has 3½ inch nickel-plated movable pans, a side-beam in front of scale with a sliding weight; this beam is divided into 120 divisions, each division representing one grain; an extra row of metric divisions is placed on bottom edge of beam, each representing one decigram. Platform or shelf is attached to base of scale in which are fitted a set of solid brass Troy weights, 2 oz. and down. Scale sensible to ½ a grain.

## LABORATORY SCALE

For Accurate Weighing.

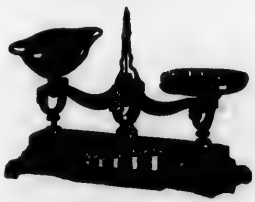


**No. 7**

**No. 7**—6 inch Pans, Capacity 1 lb.....each $13.50

Scale specially designed for laboratory and pharmaceutical work; has six-inch nickel pans, which are movable. Scale will carry one pound in each pan, is sensible to a ½ grain, has a full set of weights running from 8 oz. Troy and down to 1 grain; these are neatly fitted in a projecting shelf attached to the base of scale. Metric weights furnished in place of Troy when so desired.

## GEM TOBACCO SCALE



**No. 12**

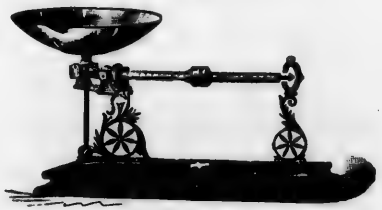
Length of Base, 10 inch. Size of Scoop, 7 x 3½ inch.

**No. 12**—Capacity 8 oz.....each $10.50

Inspection, $0.20 each.

This scale is adapted for weighing tobacco, lozenges, bon-bons, etc.; is small, light and ornamental. Brass scoop and weight plate. Provided with a set of solid brass weights 4 oz. and down, which are neatly fitted separately in a platform attached to the base of scale.

## CANDY SCALE



**No. 16**

**No. 16**—Capacity 1 lb.....each. $12.00

Inspection, $0.20 each.

Specially made for retail druggists for weighing out candy, cough drops, etc. Weighs to one pound, notches on beam quarter ounces, nickel-plated, movable scoop, etc. Scale requires no weights and is mounted on a polished oak base.

# AVERY'S AGATE BALANCES



No. 940

Japanned and Gilt Beam, with Patent Agate Bearings, Patent Iron Jointed Crank, Brass Chains.

| | | | |
|---|---|---|---|
| Length of Beam | 12 | 14 | 16 inch. |
| Capacity | 4 | 7 | 10 lbs. |
| With Brass Pan, Polished ..each | $6.40 | 7.20 | 8.40 |
| " Scoop, " .. " | 7.00 | 8.40 | 9.60 |



No. 4172

Japanned and Gilt Beam, Iron Crank, Steel Bearings, Brass Chains.

| | | |
|---|---|---|
| Length of Beam | 12 | 14 inch. |
| Capacity | 4 | 7 lbs. |
| With Brass Pan, Polished .....each | 3.80 | 4.20 |
| " Scoop, " ..... " | 4.50 | 5.00 |



No. 923

Japanned and Gilt Wrought Iron Pillar, Brass Patent Agate Beam, Brass Jointed Crank, Brass Links.

| | | | |
|---|---|---|---|
| Length of Beam | 14 | 16 | 18 inch. |
| Capacity | 4 | 7 | 10 lbs. |
| With Brass Pan, Polished, without Weights .....each | $18.40 | 20.80 | 24.40 |
| " Scoop, " " ..... " | 19.20 | 22.40 | 25.60 |

Inspection, 4 lbs. $0.20, 7 to 10 lbs. $0.30 each.

Priced without Weights, For Price of Weights, see Page 739.

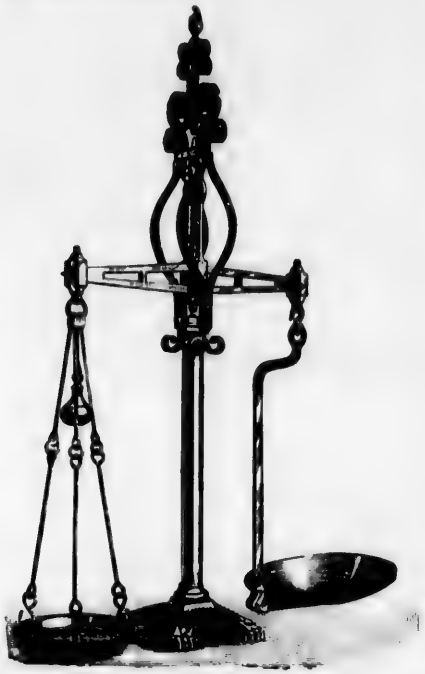
# AVERY'S AGATE BALANCES



No. 926

Japanned and Gilt Ornamental Iron Pillar with Brass Stem, Brass Patent Agate Beam, Brass Jointed Crank, Weight and Links.

| | | | | |
|---|---|---|---|---|
| Length of Beam | 14 | 16 | 18 | inch. |
| Capacity | 4 | 7 | 10 | lb. |
| With Brass Pan, Polished, each | $16.80 | 20.40 | 24.00 | |
| " Scoop " " | 18.00 | 22.40 | 26.80 | |



No. 927

Japanned and Gilt Ornamental Iron Top, Brass Stem, Brass Patent Agate Beam, Brass Jointed Crank, Weight and Links.

| | | | | |
|---|---|---|---|---|
| Length of Beam | 14 | 16 | 18 | inch. |
| Capacity | 4 | 7 | 10 | lb. |
| With Brass Pan, Polished, each | $23.20 | 26.80 | 30.80 | |
| " Scoop " " | 24.80 | 28.80 | 33.60 | |

Inspection, 4 lb. $0.20, 7 to 10 lb. $0.30 each. Priced without Weights. For price of Weights see page 739.

## BLOCK WEIGHTS



No. 231

**TROY**

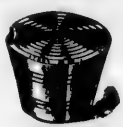
| | | | | Brass. |
|---|---|---|---|---|
| 5 ounce to ½ grain | | | per set | $ 4.15 |
| 10 " | ½ " | | " | 6.60 |
| 20 " | ¼ " | | " | 11.55 |
| 30 " | ⅛ " | | " | 14.85 |
| 50 " | 1/16 " | | " | 20.65 |
| 100 " | 1/32 " | | " | 29.70 |
| 200 " | 1/64 " | | " | 44.55 |
| 500 " | 1/128 " | | " | 84.15 |

**AVOIRDUPOIS**

Solid Brass, in Walnut or Cherry Block, as No. 231.

| | | | | Brass. | Nickel Plated. |
|---|---|---|---|---|---|
| 1 lb. to ½ ounce | | | per set | $3.70 | 4.95 |
| 2 " | ¼ " | | " | 5.75 | 7.45 |
| 4 " | ⅛ " | | " | 8.25 | 10.75 |

## CUP WEIGHTS



No. 138

**TROY**

| | | | | Brass. |
|---|---|---|---|---|
| 64 ounce to ¼ ounce | | | per set | $14.85 |
| 32 " | ½ " | | " | 9.10 |
| 16 " | ¼ " | | " | 6.60 |
| 8 " | ⅛ " | | " | 4.95 |
| 4 " | 1/16 " | | " | 2.50 |
| 10 Pennyweights to ½ grain | | | " | 0.85 |
| ½ " | | ½ " | " | 0.40 |

**AVOIRDUPOIS**

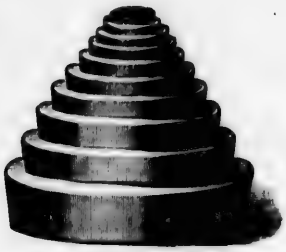
Solid Brass, in Oiled Walnut Block Lined with Poplar. Weights Burnished, as No. 231.

| | | | | Brass. | Nickel Plated. |
|---|---|---|---|---|---|
| 1 lb. to ½ ounce | | | per set | $ 6.60 | 8.25 |
| 2 " | ¼ " | | " | 9.10 | 10.75 |
| 4 " | ⅛ " | | " | 11.55 | 14.00 |

# BRASS AND IRON WEIGHTS



BELL SHAPED



NEST SHAPED

## BRASS WEIGHTS, IN SETS

| Weights | ¼ oz. to ½ lb. | ¼ oz. to 1 lb. | ¼ oz. to 2 lb. | ¼ oz. to 3 lb. | ¼ oz. to 4 lb. | ¼ oz. to 5 lb. |
|---|---|---|---|---|---|---|
| Bell Shaped.....per set | $1.80 | 2.30 | 3.75 | 5.75 | 8.50 | 11.75 |
| Nest " ..... " | 1.60 | 2.60 | 4.10 | 6.20 | 9.00 | 12.30 |

## BRASS WEIGHTS, SEPARATE

| Weights | ¼ | ½ | 1 | 2 | 4 | 8 oz. | 1 | 2 | 3 | 4 | 5 lb. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Bell Shaped.....each | $0.25 | 0.25 | 0.25 | 0.30 | 0.35 | 0.55 | 0.90 | 1.60 | 2.10 | 3.00 | 3.70 |
| Nest " ..... " | 0.20 | 0.20 | 0.20 | 0.25 | 0.30 | 0.50 | 0.80 | 1.50 | 2.00 | 2.80 | 3.50 |

## IRON WEIGHTS, IN SETS

| Weights | ½ oz. to ½ lb. | ½ oz. to 1 lb. | ½ oz. to 2 lb. | ½ oz. to 3 lb. | ½ oz. to 4 lb. | ½ oz. to 5 lb. |
|---|---|---|---|---|---|---|
| Nest Shaped....per set | $0.75 | 1.00 | 1.25 | 1.50 | 1.90 | 2.30 |

## IRON WEIGHTS, SEPARATE

| Weights | ½ | 1 | 2 | 4 oz. | ½ | 1 | 2 | 3 | 4 | 5 lb. |
|---|---|---|---|---|---|---|---|---|---|---|
| Nest Shaped.....each | $0.13 | 0.13 | 0.18 | 0.13 | 0.25 | 0.25 | 0.35 | 0.45 | 0.55 | 0.65 |

Inspection, $0.05 for each Weight.

## WEIGHTS OF PRECISION



No. 136

For analytical, assaying and scientific purposes. These weights are warranted to be of the very highest standard of accuracy and precision.

| | | Per set. |
|---|---|---|
| 1 | Platinum gramme down to $\frac{1}{10}$ milligramme | $14.00 |
| 10 | gramme pieces down to 1 milligramme | 15.70 |
| 20 | " " " 1 " ..... | 18.15 |
| 2 | 20-gramme " " 1 " and 3 riders | 19.80 |
| 50 | gramme " " 1 " " 3 " | 23.10 |
| 100 | " " " 1 " " 3 " | 26.40 |
| 200 | " " " 1 " " 3 " | 30.55 |
| 500 | " " " 1 " " 3 " | 37.95 |
| 1000 | " " " 1 " " 3 " | 46.20 |

### TROY GRAINS

| | | |
|---|---|---|
| 10 | Platinum grains to $\frac{1}{100}$ grain | 14.00 |
| 10 | " " " " " | 15.70 |
| 100 | Grain piece down to $\frac{1}{100}$ grain | 16.50 |
| 1000 | " " " $\frac{1}{10}$ " and 3 riders | 19.80 |
| 1000 | " " " $\frac{1}{100}$ " " " " | 21.45 |
| 1000 | " " " $\frac{1}{1000}$ " " " " | 23.10 |



No. 24

For pharmaceutical, chemical and other accurate purposes.

In polished mahogany box, velvet lined; large weights are lacquered, the small ones are of aluminum.

| | | Per set. |
|---|---|---|
| 20 | gramme down to 1 centigramme | $ 5.80 |
| 50 | " " 1 " | 8.25 |
| 100 | " " 1 " | 9.90 |
| 500 | " " 1 " | 16.50 |
| 500 | " " 1 milligramme | 19.80 |
| 1 | kilogramme down to 1 gramme | 16.50 |
| 1 | " " 1 centigramme | 19.80 |
| 1 | " " 1 milligramme | 23.10 |
| 1 | ounce Troy " ½ grain | 5.80 |
| 2 | " " " ¼ " | 8.25 |
| 5 | " " " ¼ " | 12.40 |
| 10 | " " " ¼ " | 16.50 |
| 20 | " " " ¼ " | 21.45 |
| 50 | " " " ¼ " | 28.00 |
| 100 | " " " ¼ " | 42.90 |

# COFFEE AND SPICE MILLS

## ENTERPRISE



No. 0

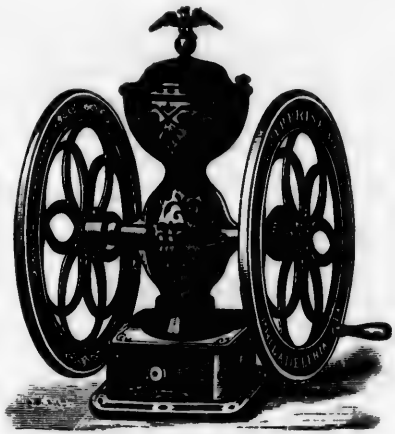






No. 1

No. 0—Hopper holds 4 ounces, Weight 6 lbs., Height 11½ inches.....each $2.25
" 1— " 4 " " 10 " " 12½ " ..... " 3.40



IRON HOPPER



NICKEL-PLATED HOPPER

No. 2 —Iron Hopper holds 4 ozs., Weight 15 lbs., Height 12½ inches .....each 5.25
" 3 — " " 8 " " 22½ " " 15 " ..... " 7.50
" 9 — " " 3 lbs., " 107 " " 24 " ..... " 24.00
" 2½—Nickel-Plated Hopper holds 7 ozs., Weight 14 lbs., Height 15 inches..... " 6.75
" 4 — " " " 1 lb., " 22 " " 20½ " ..... " 12.00
" 10 — " " " 4½ lbs., " 102 " " 28 " ..... " 31.50

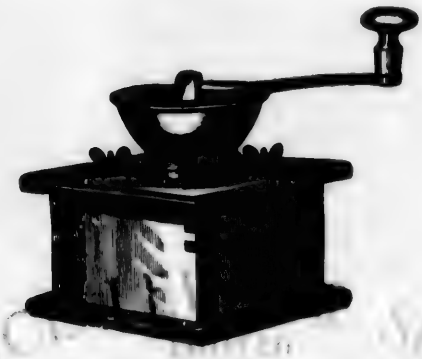
Nos. 2 and 2½ will grind 6 ozs. per minute, Nos. 3 and 4, half lb., Nos. 9 and 10, 1½ lbs.

## ENTERPRISE COFFEE, SPICE AND DRUG MILLS

No. 12—Iron Hopper, holds 5 lbs. coffee, Height 32 inches, Wheels 25 inches diam., Weight 141 lbs, will grind 1½ lbs of coffee per minute, Cast Iron Base with Removable Receiving Cup.....each 33.00
" 14—Nickel-Plated Hopper, holds 7½ lbs. coffee, Height 42 inches, Wheels 25 inches diam., Weight 128 lbs., will grind 1½ lbs. of coffee per minute, Cast Iron Base with Removable Receiving Cup.....each 40.50
" 16—Iron Hopper, holds 6¼ lbs., Height 5 feet 3 inches, Wheels 31 inches diam., Weight 250 lbs., will grind 1½ lbs. of coffee per minute, stands on Ornamental Cast Iron Base.....each 60.00
" 18—Nickel-Plated Hopper, holds 7½ lbs. coffee, Height 5 feet 8 inches, Wheels 31 inches diam., Weight 233 lbs., will grind 1½ lbs. of coffee per minute, stands on Ornamental Cast Iron Base.....each 67.50

Mills Nos. 9 to 18 are fitted with Enterprise New "**Rapid**" Grinders, which will pulverize. Nos. 12 to 18 Mills to order only.

# COFFEE AND SPICE MILLS



Nos. **104** and **106**

No. **104**—Box Coffee or Spice Mills, Iron Hopper, with Dovetailed Boxes ..... per doz. $6.75
" **106**— " " " Britannia Hopper, " " ..... " 9.00



Nos. **300** and **301**

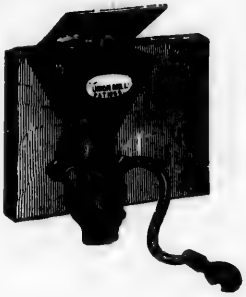


No. **400**

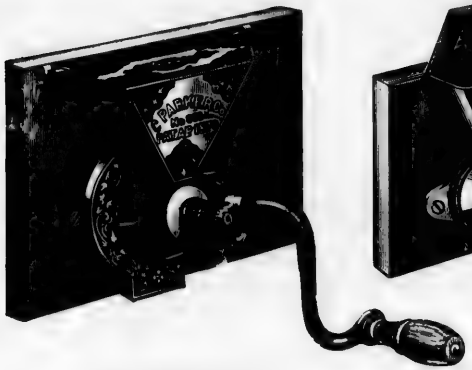
No. **300**—Box Coffee or Spice Mills, Wood Top, with Dovetailed Boxes, Small Size ..... per doz. 8.10
" **301**— " " " " " " " " Medium " ..... " 9.00
" **400**— " " Iron " Bronzed, " " Small " ..... " 8.10

Half dozen in a box.

# COFFEE AND SPICE MILLS



No. 20



Nos. 360 and 370



Nos. 130 and 135

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. | 20 | —Side Mill, Japanned, with Wood Back | | | | per doz. | $9.75 |
| " | 360 | — " | Bronzed, | " | " | Medium Size | " 7.35 |
| " | 370 | — " | " | " | " | Large Size | " 9.00 |
| " | 130 | — " | Japanned | " | " | Extra Large Size | " 20.25 |
| " | 135 | — " | " | " | " | (Old Wilson Improved) | " 4.65 |

No. 130, one-third dozen in a box; No. 135, one dozen; others, one-half dozen.




## GRINDING MILLS

Adapted to grinding Dry Bones, Shells, Corn, Grain, etc.

| | Height. | Width. | Wheel. | Weight. | Price each. |
|---|---|---|---|---|---|
| No. 1— | 13 inch. | 8¼ inch. | 12¼ inch. | 20 lbs. | $3.50 |
| " 2— | 16 " | 9½ " | 16½ " | 35 " | 7.00 |
| " 3— | 18¼ " | 12¼ " | 19¾ " | 63 " | 10.50 |

They are easily adjusted to grind fine or coarse. The Burrs are made of Steel Alloy Metal. Capacity, No. 1, ½ to 1 bushel per hour; No. 2, ¾ to 1½; and No. 3, 1 to 2 bushels.

## WINE AND JELLY PRESS




### WINE AND JELLY PRESS

Tinned.

| | | | |
|---|---|---|---|
| No. 34— | Capacity 1 quart | each | $ 4.50 |
| " 46— | " 3 " | " | 22.50 |

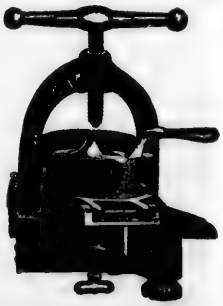
For making wines or jellies from berries of all kinds, grapes, currants, tomatoes, pineapples, etc.

## MEAT JUICE PRESS

### MEAT JUICE PRESS

| | | | |
|---|---|---|---|
| No. 1C— | For Infants | per doz. | $18.75 |
| " 2C— | Family Size | " | 26.55 |
| " 2B— | " " | " | 30.35 |
| " 3B— | Hospital " | " | 53.10 |

Nos. 2B and 3B have Hinge Clamp, as shown in cut. Nos. 1C and 2C are without Hinge Clamp.



No. 2B, WITH HINGE CLAMP

# CHERRY STONERS

### ENTERPRISE CHERRY STONER



No. **1**—Japanned ..... per doz. $10.80
" **2**—Tinned ..... " 13.50

Can be adjusted by Thumb Screws to adapt it to the different sizes of cherry stones. Is recommended particularly to those desiring rapid work.

### NEW CHERRY STONER



No. **12**—Tinned ..... per doz. $18.00

No. 12 is intended to stone cherries with the least possible cutting or disfiguring. The most satisfactory results are obtained by dropping the cherries one at a time, into the hopper immediately after sweeper has passed the hole.

## RAISIN AND GRAPE SEEDERS

### ENTERPRISE RAISIN SEEDER




No. **36**—Size for Families ..... per doz. $15.00
" **38**— " " Hotels, Bakeries, etc... " 45.00

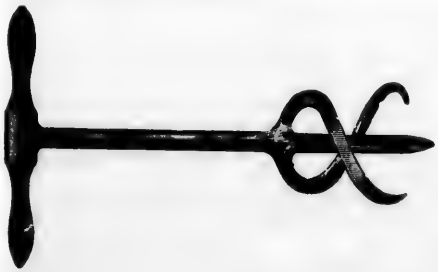
No. 36 will seed a pound of raisins in five minutes; No. 38, a pound in one minute.

### CROWN RAISIN SEEDER



No. **37**—Crown Raisin Seeders ..... per doz. $11.40

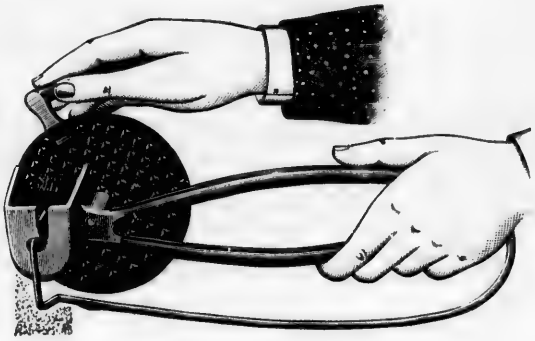
Seeds one pound of raisins in five minutes.



## FRUIT AUGERS

No. **1**—Malleable Iron, Tinned, with Wood Handle, per doz..... ..... 9.00

# ROTARY NUTMEG GRATER

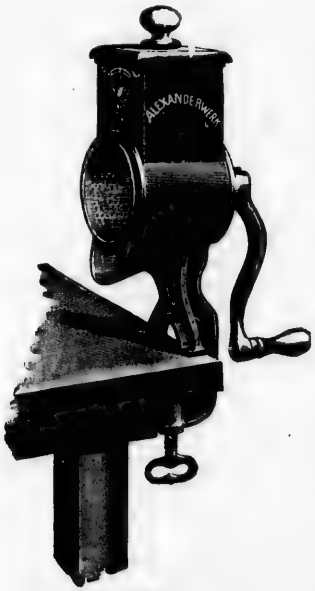


**No. 1**—Rotary Nutmeg Graters, Tinned.....per doz. $1.80

## BREAD GRATERS



CHAMPION




No. 1050A

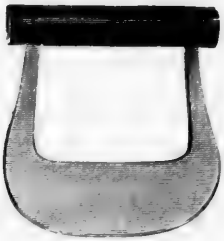
**Champion**—With Rotary Disc, Tinned.....per doz. 18.00
**No. 1050A**— " Revolving Tinned Disc, Enamelled Inside, Painted Frame..... " 18.00

These Machines will grate cocoanut, walnuts, almonds, crackers and all similar substances.

# MINCING KNIVES



No. 11



No. 21

No. **11**—Plain Handle, Braced Shank, Polished Blade.....per doz. $0.70
" **21**— " " Hammered Cast Steel Blade..... " 3.60




No. 40

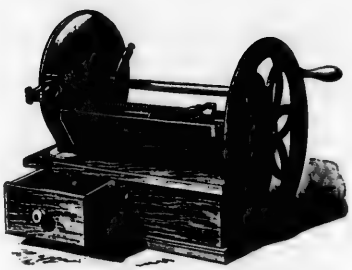



No. 60

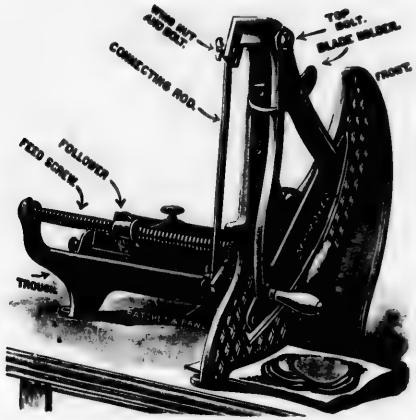
No. **40**—4 Knives, 4 inch Blade, Polished, Japanned Malleable Handle..... per doz. 1.95
" **60**—6 " 4 " " "

# SMOKED BEEF SHAVERS

**ENTERPRISE**



No. 125




No. 23

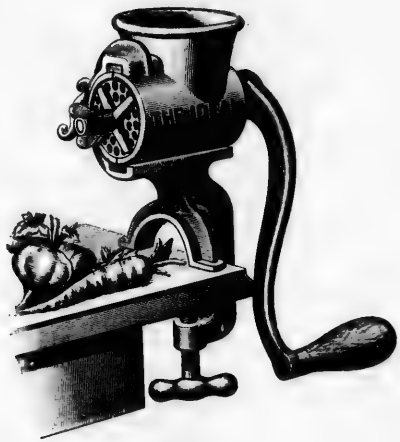
No. **125**—New Rotary Beef Shaver. The sliced beef falls into a drawer which holds about two pounds. Easy to regulate ..... each $27.00
No. **23**—Improved Beef Shaver, Japanned, with Swing Blade, Automatic Feed ..... " 9.75

## MEAT AND FOOD CHOPPERS

**TINNED**




SENSIBLE



IDEAL

No. **1**—Sensible, cuts 1½ lbs. meat per minute ..... each 1.95
" **2**— " " 2 " " ..... " 2.50
" **25**—Ideal " 2 " " ..... " 2.50

These Machines are suited for different uses and will cut meat, fruit, vegetables, crackers, cheese, etc. All parts Tinned.

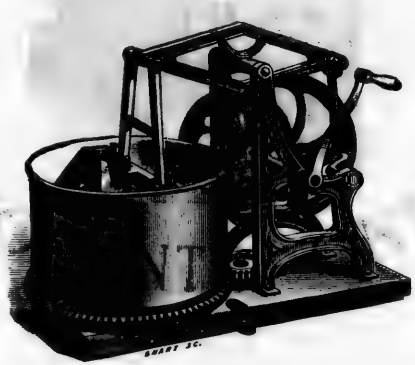
# ALEXANDERWERK MEAT CHOPPERS

**WHITE ENAMELLED INSIDE, JAPANNED AND ORNAMENTED OUTSIDE**



| Size | R | S | SS | U | T |
|---|---|---|---|---|---|
| Enterprise Nos | 5 | 10 | 12 | 22 | 32 |
| Price ..... each | $1.50 | 2.25 | 1.88 | 3.00 | 4.50 |

## AMERICAN MEAT CHOPPERS



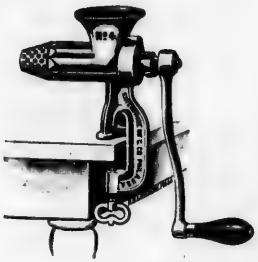
**Nos. 1 to 4**

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | 1—Family size, | 8 | inch | Cylinder, | cuts | 3 | lbs. | in | 3 | minutes, | Weight | 14 | lbs..... each | $ 6.25 |
| " | 2— " " | 10 | " | " | " | 5 | to | 6 | lbs. | in | 3 | minutes, | Weight | 21 | lbs..... " | 8.75 |
| " | 3—Hotel " | 12 | " | " | " | 8 | to | 10 | " | in | 3 | " | " | 37 | lbs..... " | 12.50 |
| " | 4—Butcher " | 15 | " | " | " | 50 | to | 60 | " | an | hour, | Weight | Crated | 120 | lbs..... " | 31.25 |
| " | B— " " | 20 | " | " | " | 80 | to | 100 | " | " | " | " | " | 275 | lbs..... " | 62.50 |

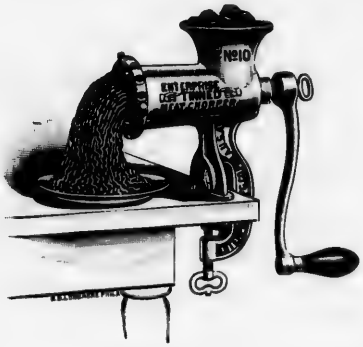
**No. 4 is especially adapted for the use of Butchers. No. B is in all respects similar to No. 4, with the exception that it is mounted on legs and the cylinder is 5 inches larger in diameter.**

# ENTERPRISE MEAT CHOPPERS

**TINNED**



Nos. **2** and **4**




Nos. **5** and **10**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No. **2**—Chops 1 lb. per minute, weight 4½ lbs. | | | | | | | each | $1.75 |
| " **4**— " 1½ " " " 5½ " | | | | | | | " | 2.25 |
| " **5**— " 1 " " " 4⅜ " | | | | | | | " | 2.00 |
| " **10**— " 2 " " " 8 " | | | | | | | " | 3.00 |

**Six in a case.**




Showing Machine taken apart.

Nos. **12**, **22** and **32**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No. **12**—Chops 2 lbs. per minute, weight 7 lbs. | | | | | | | each | 2.50 |
| " **22**— " 3 " " " 12 " | | | | | | | " | 4.00 |
| " **32**— " 4 " " " 18 " | | | | | | | " | 6.00 |

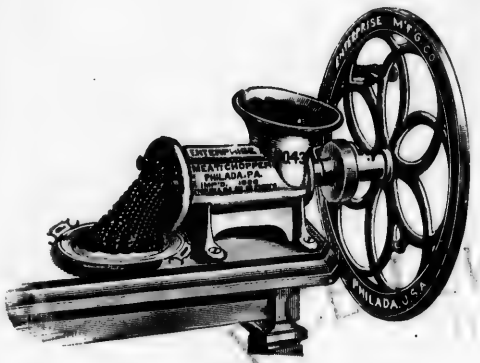
**Six in a case.**

## PRICES OF PARTS FOR ENTERPRISE MEAT CHOPPERS

| Nos. | | **5** | **10** | **12** | **22** | **32** |
|---|---|---|---|---|---|---|
| Plates | each | $0.30 | 0.50 | 0.50 | 0.75 | 1.00 |
| Knives | " | 0.25 | 0.30 | 0.30 | 0.50 | 0.75 |
| Rings | " | 0.25 | 0.40 | 0.40 | 0.75 | 1.00 |
| Handles | " | 0.25 | 0.30 | 0.30 | 0.50 | 0.75 |

# MEAT CHOPPERS

**TINNED**



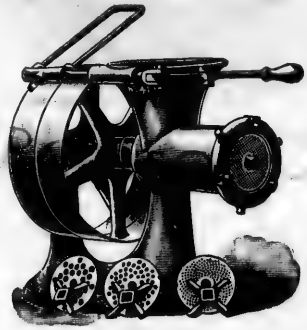

No. 43

No. 43 is similar in construction to No. 44, the only difference being that it has no Column or Pedestal, and is intended to be screwed to a table or block. Four Plates are sent with each Machine, two fine ($\frac{7}{64}$ in. holes), one medium ($\frac{1}{4}$ in. holes), and one coarse ($\frac{3}{8}$ in. holes), also four Knives. In cutting beef it should be run through the coarse Plate first (slow speed), and then through the fine Plate.




No. 44

No. 43—Diameter of Plate 5½ inches, Diameter of Fly Wheel 31 inches.....each $45.00
" 44— " " 5½ " " " " 31 " ..... " 60.00



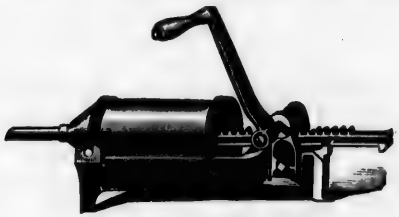
No. 41

No. 41—Capacity 300 lbs. of beef per hour, furnished with four Plates and Knives ..... .....each 50.00

The Plates furnished with this Machine, are two $\frac{7}{64}$ in. holes, one $\frac{1}{4}$ in., and one $\frac{3}{8}$ in., also four Knives. Height 16½ inches, Length 21 inches, Diameter of Hopper 9 inches, Diameter of Throat 3 inches, Diameter of Plate 4 inches, Pulleys 12 x 2¾ inches, Power 1 to 3 h.p., Weight of Machine complete 93 lbs.

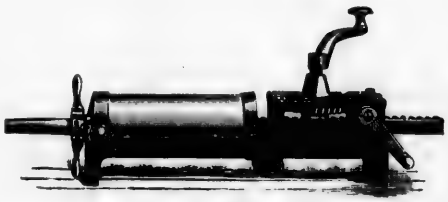
# SAUSAGE STUFFERS

## TINNED STEEL CYLINDERS, CASTINGS MALLEABLE IRON



Nos. 1 and 2

No. 1—Capacity 6 lbs., Weight (crated) 30 lbs. ..... each $5.00
" 2— " 9 " " " 40 " ..... " 8.00



No. 3



No. 4

No. 3—Capacity 12 lbs., Weight (crated) 80 lbs. ..... each $10.00
" 4— " 18 " " " 120 " ..... " 15.00

## SAUSAGE STUFFER AND LARD PRESS




SCREW MOVEMENT




RACK MOVEMENT



STUFFING ATTACHMENT

No. 5—Rack Movement, Cap. 2 qts., Japanned ..... each $4.50
" 15—Screw " " 2 " " ..... " 6.00
" 25— " " " 4 " " ..... " 7.50
" 35— " " " 8 " " ..... " 9.75

## STUFFING ATTACHMENT FOR ENTERPRISE MEAT CHOPPERS

| To fit Choppers Nos | 5 | 10 | 12 | 22 | 32 |
|---|---|---|---|---|---|
| ¾ inch ..... per doz. | $3.75 | 4.50 | 4.50 | 6.00 | 7.25 |

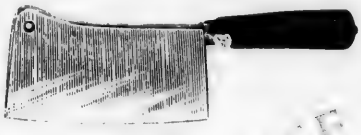
The Stuffing Attachment, illustrated above, may be attached to the Enterprise Meat Choppers. After the meat has been chopped, remove the Knife and Plate, and place against the Cylinder. They are made of spun brass nickel-plated.

# BUTCHERS' CLEAVERS



No. 3702

| Cut | | 6 | 7 | 8 | 9 inch. |
|---|---|---|---|---|---|
| No. 3702—Boker's, Heavy Beechwood Handle | per doz. | $5.25 | 6.40 | 7.90 | 9.60 |



No. 3700



No. 3706

| Cut | | 6 | 7 | 9 | 10 | 12 inch. |
|---|---|---|---|---|---|---|
| No. 3700—Boker's, Plain Black Handle | per doz. | $3.75 | 4.15 | ..... | ..... | ..... |
| " 3706— " Round Beechwood Handle | " | .... | .... | ..... | 17.00 | 20.50 |
| " 3715— " Riveted " " Heavy Blade, Pattern as 3700 | " | .... | .... | 27.25 | 33.00 | 45.00 |



MARKET CLEAVER



PORK CHOPPER



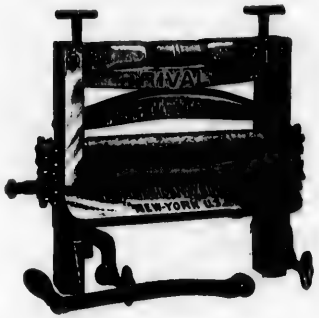
LAMB CLEAVER



BEEF SPLITTER

| Cut | | 7 | 8 | 9 inch. |
|---|---|---|---|---|
| Market Cleaver | per doz. | $18.90 | 21.45 | 25.20 |
| Cut | | 8 | 9 | 10 inch. |
| Pork Chopper | per doz. | $17.00 | 19.55 | 22.05 |
| Cut | | | 8 | 9 inch |
| Lamb Cleaver | per doz. | | $12.60 | 13.85 |
| Cut | | | 12 | 14 inch. |
| Beef Splitter | per doz. | | $52.65 | 60.75 |

# CLOTHES WRINGERS

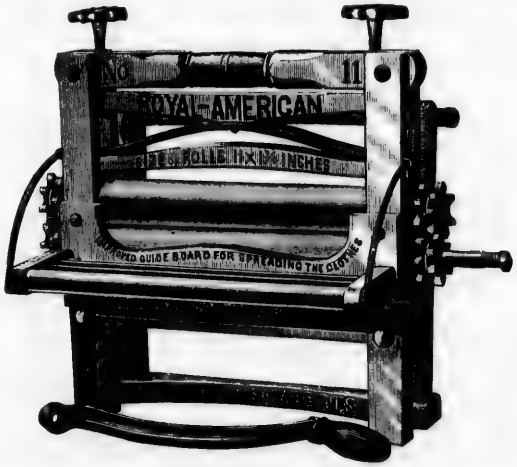



RIVAL, BALL BEARINGS




CRESCENT

**Rival**, Ball Bearing, Rolls Vulcanized on the Shaft, Size 10 x 1¾ inch .....per doz. $55.50
**Crescent**, Double Gear, " " " " " 10 x 1¾ " ..... " 33.00



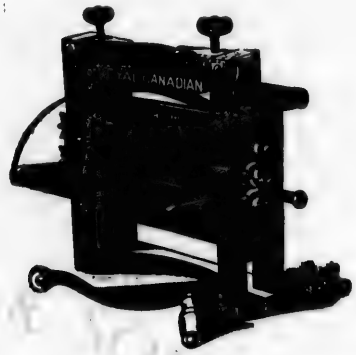

ROYAL AMERICAN

**Royal American**, with Patent Adhesive Rolls, Vulcanized on the Shafts, Size 11 x 1¾ inches.....per doz. 41.25

# CLOTHES WRINGERS




LEADER




XXX ROYAL CANADIAN

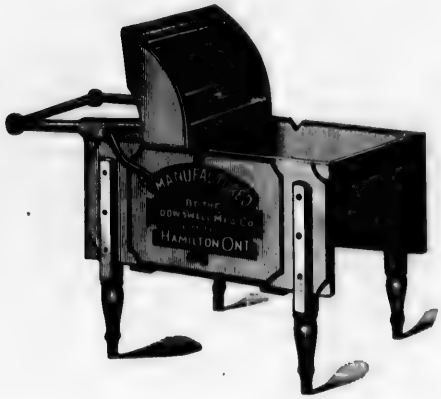
**Leader,** with Internal Gear, Lever Tightener, Rolls 11 x 1¾ inches.....per doz. $45.00
**XXX Royal Canadian,** Double Gear, Iron Bearings, Rolls 11 x 1¾ inches..... " 43.50




AJAX

**Ajax,** Heavy, suitable for Hotels and Laundries, Rolls 14 x 2¼ inches.....per doz. 108.00

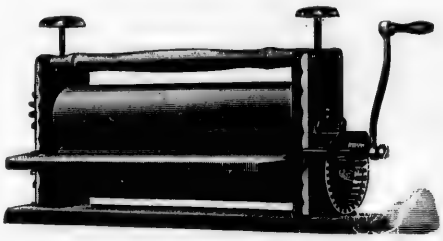
# WASHING MACHINES




DOWSWELL

| | | |
|---|---|---|
| **Dowswell** Clothes Washing Machines | each | $4.50 |
| **Jubilee** " " " | " | 4.15 |

## MANGLES



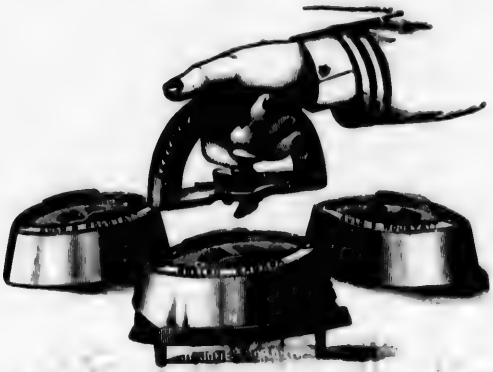
DOMESTIC



THREE ROLLER MANGLE

| | | |
|---|---|---|
| **Domestic,** 2 Maple Rolls, 20 inches long, 4 inches diam., Driven by Internal Gear, easy to operate | each | 9.00 |
| **Queen,** 3 Maple Rolls, 24 inches long, 5 inches diam., Mounted on Iron Wheels, Heavy Frame, Folding Wood Table on one side | each | 18.75 |
| **Turner's,** 3 Maple Rolls, 24 inches long, 5 inches diam, Mounted on Iron Wheels, Heavy Frame, Folding Wood Table on one side | each | 24.00 |

# SAD IRONS



MRS. POTTS' COLD HANDLE SAD IRONS

| | | |
|---|---|---|
| No. **50**—Nickel-Plated, 3 Irons, 1 Handle and Stand in a Set | per set | $1.15 |
| " **55**—Plain, Polished, " " " " | " | 0.90 |
| Extra Handles for Mrs. Potts' Sad Irons | per doz. | 1.30 |
| " " " Rochester " | " | 3.00 |

## SAD IRONS



## POLISHING IRONS



TROY



STAR

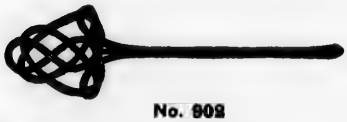
| | | |
|---|---|---|
| **Sad Irons, Polished and Japanned, Nos. 4 to 10** | per lb. | 0.05 |
| No. **182**—Troy, Polishing Irons, Perforated Face, Iron Handles, Genuine | per doz. | 8.25 |
| " **282**— " " " " " " " Imitation | " | 7.50 |
| " **82**—Star, " " Wood Handles, Nickel-Plated, Weight 3 lbs. | " | 11.00 |
| " **87**— " " " " " Polished, Weight 3 lbs. | " | 9.00 |
| " **72**— " " " Perforated Iron Handles, Nickel-Plated, Weight 3 lbs. | " | 8.00 |
| " **77**— " " " " " " Polished, Weight 3 lbs. | " | 6.00 |

## TAILORS' IRONS



| | | |
|---|---|---|
| Tailors' Irons, 16 to 24 lbs., Polished and Japanned | per lb. | 0.06 |

# CARPET BEATERS



No. 902



No. 2

No. **902**—Double Cane, Extra Strong.....per doz. $3.40
" **2**—Steel Wire, Coppered, Wood Handles..... " 1.45

## CARPET STRETCHERS



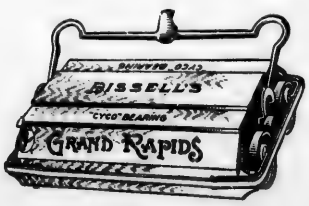
No. 5



No. 6

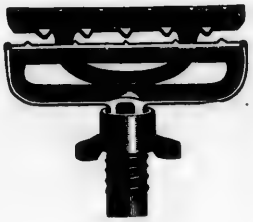
No. **5**—4½ inch, Polished Steel Blade and Points, Japanned.....per doz. 1.15
" **6**—Bullard's Patent, Polished Steel Blade, Japanned Iron Frame, Wood Handle..... " 7.15

## CARPET SWEEPERS




Grand Rapids, with Rubber Bands, Japanned Trimmings.....per doz. 36.00
" " Hall Sweeper, Suitable for Hotels..... " 96.00
Rubber Bands for Grand Rapids Carpet Sweepers..... " 3.00

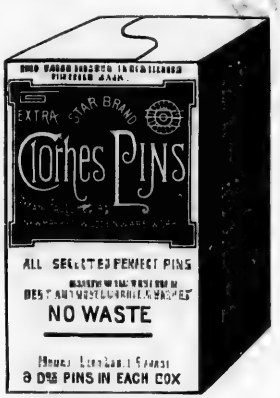
# MOP STICKS





| | | |
|---|---|---|
| Extra Star | per doz. | $2.00 |
| Trojan | " | 3.00 |
| Williams' | " | 3.00 |
| Peerless (similar to Williams') | " | 2.50 |

| | | |
|---|---|---|
| Self-Wringing Mops | per doz. | $6.00 |
| " " " Cloths, extra | " | 2.50 |




## CLOTHES PINS

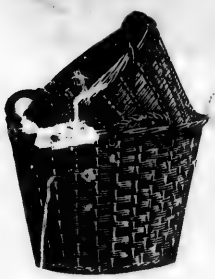
Selected, full count.

| | | |
|---|---|---|
| No. 1—5 gross in box | single box | 1.30 |
| " 1—5 " " | 10 box lots | 1.10 |
| Extra Star in 4 doz. packages, 12 packages to a case | per case | 1.50 |
| " 6 " " 12 " " | " | 2.00 |
| Hoyt's Patent Spring Clothes Pin, 5 gross in a case | " | 3.00 |

## BASKETS



WILLOW CLOTHES BASKETS



WILLOW ROOT BASKETS



SPLINT ROOT BASKETS

### WILLOW BASKETS

| Nos | 1 | 2 | 3 | |
|---|---|---|---|---|
| Size | 30x22x13 | 2[illegible]21x12 | 25x18[illegible]12 | inch. |
| Clothes, Oval, per doz. | $13.00 | [illegible] | [illegible].50 | |

| Size | ½ | 1½ | 2 | bush. |
|---|---|---|---|---|
| Root, Unpeeled Willow, per doz. | $6.50 | 11.00 | 13.00 | |

### SPLINT BASKETS

| Size | Large. 30x21x12 | Medium. 25x17x10 | Small. 25x17x8 | inch. |
|---|---|---|---|---|
| Clothes....per doz. | $5.50 | 5.00 | 4.59 | |

| Size | 1 | 2 | 3 | bush. |
|---|---|---|---|---|
| Root.....per doz. | $3.80 | 7.00 | 11.50 | |

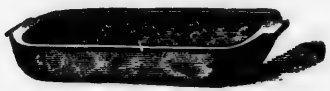
# WOODENWARE

## BUTTER BOWLS



| Size | 13 | 15 | 17 | 19 | 21 | 24 |
|---|---|---|---|---|---|---|
| Maple....per doz. | $1.00 | 4.00 | 6.00 | 8.00 | 10.00 | 17.00 |
| Assorted, 4 in a Crate (Nos. 13, 15, 17, 19)..per doz. | | | | | | 6.00 |

## CHOPPING TRAYS



| Nos | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| Maple.....per doz. | $6.00 | 8.00 | 10.00 | 15.00 |
| Assorted, 4 each (Nos. 1, 2, 3).....per doz. | | | | 8.00 |

## BUTTER LADLES



| Nos | 1 | 2 | 3 |
|---|---|---|---|
| Per dozen | $1.50 | 1.30 | 1.10 |

## DRY MEASURES



### WOOD

| Size | ½ | 1 | 2 pecks. |
|---|---|---|---|
| Per dozen | $3.25 | 4.50 | 7.50 |

Inspected.



### IRON, JAPANNED

| Size | ¼ | ½ | 1 | 2 pecks. |
|---|---|---|---|---|
| Per dozen | $3.18 | 3.87 | 7.18 | 8.43 |

Inspected.

**Feed Pans,** Iron, Japanned, 5½ inches deep, 8 inches diam.....per doz. $1.87

**Feed Boxes,** Wood, 6½ inches deep, 10½ inches diam..... " 1.50

# WOODENWARE

## ROLLING PINS



No. **293** —Solid Handles ..... per doz. $1.30
" **293R**—Revolving Handles ..... " 1.40
" **293E**—Enamelled Handles ..... " 1.60

## POTATO MASHERS



No. **294** —Straight Pattern ..... per doz. 0.80
" **294S**—Shaped " ..... " 0.90
" **294E**—Enamelled Handles ..... " 1.10

## BUTTER MOULDS



No. 280



No. 282




No. 277

| Size | ¼ | ½ | 1 | 2 lbs. |
|---|---|---|---|---|
| No. **280**—Best White Wood, Assorted Patterns ..... per doz. | $3.70 | 5.00 | 7.50 | .... |
| " **277**— " Seasoned Maple, with adjustable Screws ..... " | 6.00 | 7.50 | 9.00 | 10.50 |
| " **282**—Butter Stamps, 3 to 4 inch ..... | | | | per doz. $1.20 |

## BUTTER SPADES



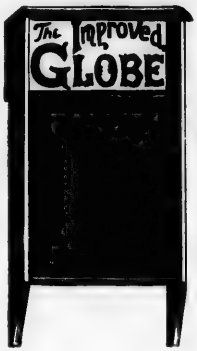
No. **283**—Fluted ..... per doz. 1.70

## WOODEN SPOONS

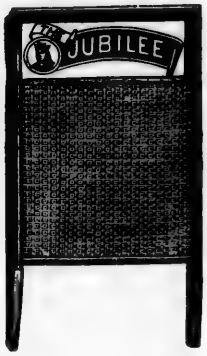


| Size | 12 | 15 | 18 inch. |
|---|---|---|---|
| No. **290**—Straight Handle ..... per doz. | $1.00 | 1.30 | 2.00 |

# STEP LADDERS AND WASH BOARDS






## STEP LADDERS

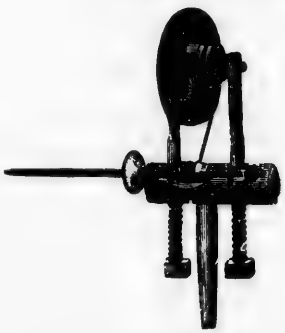
| | | | | | | |
|---|---|---|---|---|---|---|
| Length | 5 | 6 | 7 | 8 | 10 | feet. |
| Each | $0.80 | 1.00 | 1.12 | 1.28 | 1.60 | |

## WASH BOARDS

| | | |
|---|---|---|
| Leader Globe, Thin Back, Light Zinc, Improved Tops | per doz. | $2.50 |
| Improved " " Heavy " " " | " | 2.80 |
| Standard " Thick Back, " " " " | " | 3.00 |
| Solid " Solid One Piece Back, Heavy Zinc, Improved Tops | " | 3.20 |
| Jubilee, Perforated Zinc, Oval Face | " | 3.80 |
| Jewel, Extra Quality, Heavy Zinc, Double Face, Reversible Top | " | 7.80 |
| Superb " " " " " " Improved Top | " | 7.80 |

Half-dozen in a crate.

## WHEEL HEADS



### ANTI-FRICTION

Large ..... per doz. $8.00

## DASHER CHURNS

| Size | 6 | 8 | 10 | gals. |
|---|---|---|---|---|
| No. 285—Oak . . per doz. | $24.00 | 27.00 | 30.00 | |



# CHURNS

## WITH ROLLER BEARINGS




LEADER




DAISY

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. 1— 9 Gals., Churns from 1 to 4 Gals. | | | | | | each | $8.50 |
| " 2—15 " | " | 1 " 7 " | | | | " | 9.00 |
| " 3—20 " | " | 1 " 9 " | | | | " | 10.00 |
| " 4—25 " | " | 1 " 12 " | | | | " | 12.00 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. 0— 7 Gals., Churns for 1 Cow | | | | | | each | $8.00 |
| " 1— 9 " | " | from 1 to 4 Gals. | | | | " | 8.50 |
| " 2—15 " | " | 1 " 7 " | | | | " | 9.00 |
| " 3—20 " | " | 1 " 9 " | | | | " | 10.00 |
| " 4—25 " | " | 1 " 12 " | | | | " | 12.00 |

## ICE CREAM FREEZERS




GEM




LIGHTNING

| Size | 2 | 3 | 4 | 6 | 8 | 10 | 14 quart. |
|---|---|---|---|---|---|---|---|
| Gem ..... each | $2.10 | 2.55 | 2.95 | 3.75 | 5.05 | 6.75 | 9.50 |
| Lightning ..... " | 2.10 | 2.55 | 2.95 | 3.75 | 5.05 | 6.75 | .... |

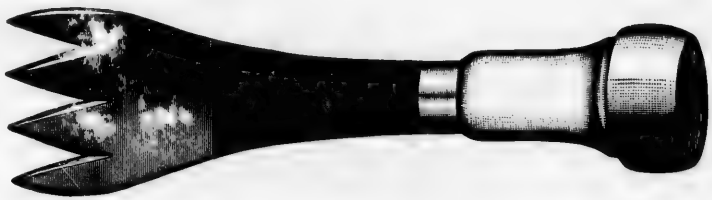
# ICE PICKS



No. 1—Steel Blade, Hardwood Handle ..... per doz. $1.65



No. 3—Steel Blade, Hollow Iron Head ..... per doz. 2.85



No. 2—Tempered Steel Blade, Hardwood Head with Galvanized Iron Ring ..... per doz. 4.90



Alaska Ice Breaker and Shaver, Nickel-Plated, Japanned Striker ..... per doz. 4.90

## CROWN ICE CHIPPER



Crown Ice Chipper, Wood Handle, Polished Steel Blade, Galvanized Iron Guard ..... per doz. 8.25
Length over all 10 inches.

# ICE SHREDDERS

**ENTERPRISE**

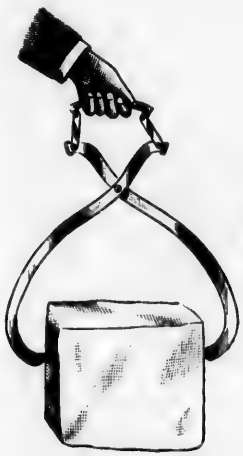


No. **33**—Tinned, for Shaving Ice, Coarse or Fine ..... per doz. $9.00



No. **43**—Tinned, for Shaving Ice, Coarse or Fine ..... per doz. 13.50

## ICE TONGS



Nos. 1 to 3



Nos. 21 and 22

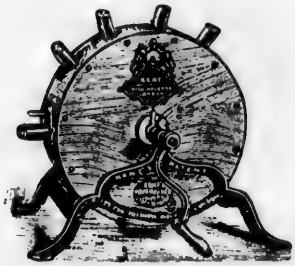


No. 31

No. **1**—Heavy, for Packing Houses and Delivery Wagons, open 21 inches ..... per doz. 12.00
" **2**—Medium, for Stores, Hotels, Private Houses, etc., " 18 " ..... " 9.00
" **3**—Light, Small Tongs, suitable for Private Houses, " 11 " ..... " 6.00
" **21**— " " " " " " " " 11 " ..... " 6.60
" **22**—Medium, for Stores, Hotels, etc., open 16 inches ..... " 7.70
" **31**—Family Ice Tongs, Malleable Iron, Japanned, open 12 inches ..... " 6.00

# KNIFE CLEANING MACHINES

## KENT'S

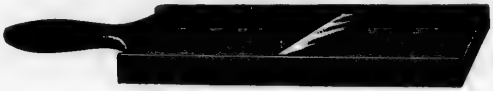


No. 9—With Low Stand, for 2 Knives and Carver.....each $19 20
" 8— " " " " 3 " " ..... " 30.00

## OAKEY'S KNIFE POLISHING BOARDS

No. 1—Oakey's Rubber Knife Boards, 21 x 6 inches.....per doz. 2.65

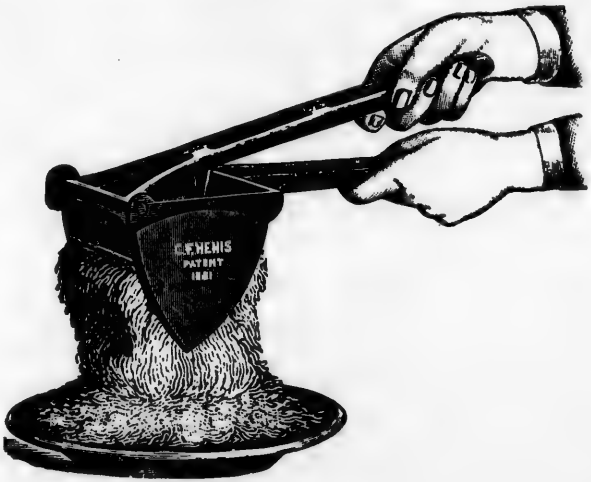
## VEGETABLE CUTTERS



No. 0—3½ x 12 inches.....per doz. 3.30

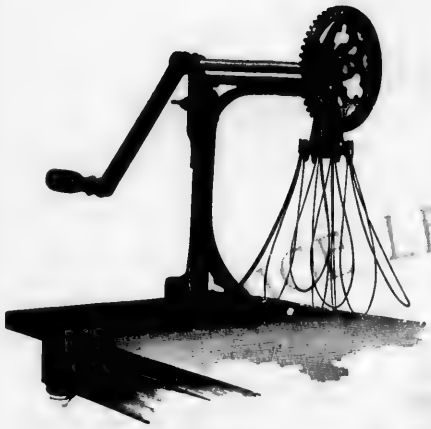
## VEGETABLE PRESSES

### HENIS'




Henis' Vegetable Presses.....per doz. 6.00

# EGG BEATERS



No. 2



No. 20



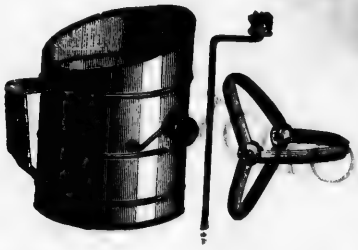
No. 100



No. 10

| | | | |
|---|---|---|---|
| No. | 2—Keystone Egg Beater and Cream Whip | per doz. | $11.65 |
| " | 20— " " " with Graduated Glass Jar, holds 1 qt. (Wine) | " | 19.15 |
| | Extra Jars | " | 6.00 |
| " | 100—Improved Dover Pattern Egg Beaters | " | 2.00 |
| " | 10—Batter Mixers, Flat Steel Wire | " | 3.00 |

## FLOUR SIFTERS

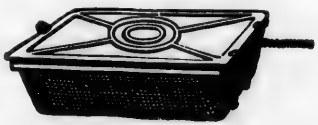


## BALLOON FLY TRAPS



Victor Flour Sifters.....per doz. $2.20 | Balloon Fly Traps.....per doz. 2.70

## CORN POPPERS



Corn Poppers.....per doz. 1.60

# LEMON SQUEEZERS



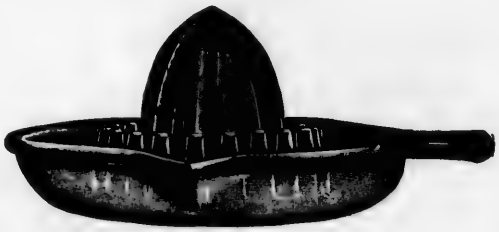
**Boss**, Tinned.....per doz. $1.90

## LEMON JUICE EXTRACTORS

**GLASS**



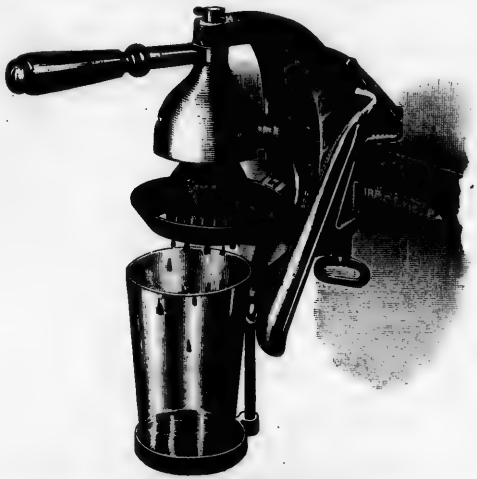

No. 1



No. 2

No. 1—Glass Lemon Juice Extractor.....per doz. 0.75
" 2— " " " " " " " 2.25

## PERFECTION LEMON SQUEEZER



For Bars, Hotels, etc.

No. 1—Perfection, Nickel-Plated, Squeezer Heads Tinned, with Clamp, as illustrated.....each 3.00
" 2— " " " " " " " Stand for Table..... " 3.00

Squeezer Heads can be easily removed for cleansing; will remove all the juice from the lemon without crushing seeds or extracting oil from the peel.

# CAN OPENERS



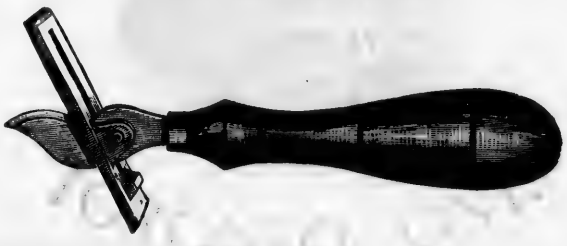
No. **990**—Sardine Scissors, Length 7¾ inches, Bright, with Catch ..... per doz. $3.25
" **6821**—Lund's Can Opener, " 7¾ " Bronzed, " ..... " 8.75



No. **5**—Steel Blade, Japanned Handle ..... per doz. 0.45

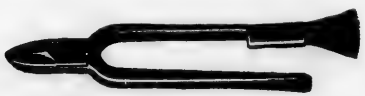


**Double Quick**, Cold Rolled Steel Blade, Tinned Malleable Iron Handle ..... per doz. 0.85



No. **2**—Sprague's, Steel Blade, Double Slide, Wood Handle ..... per doz. 0.90
" **991A**—Boker's, " " Varnished Wood Handle ..... " 1.00
**6491**—" Fine " " " " Nickel-Plated ..... " 1.50

## CHAMPAGNE NIPPERS



No. **521**—5 inch, Polished ..... per doz. 7.50

# OYSTER OPENERS



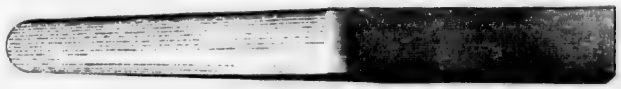
No. 987

No. **987**—Wood Handle, Plain, Polished Blade ..... per doz. $1.25



No. 6804

No. **6804**—Black Wood Handle, with Guard, Polished Blade, Length 7½ inches ..... per doz. 4.00
" **6804**—Stag Horn " " " " " " 7½ " ..... " 5.60



No. 990

No. **990**—All Metal, Polished Blade, Length 8 inches ..... per doz. 4.10



No. 6820

No. **6820**—Patent Oyster Opener, Length 8 inches ..... per doz. 7.00



No 1759

## LARDING PINS



No. **D538**—In Tin Case containing 1 dozen, with Trussing Needle ..... per doz. cases 11.00

## SKEWERS

No. **1759**—Steel Skewers, 12 Assorted, 4 to 8 inch ..... per doz. set 1.50

# BAR SUPPLIES



No. 50. Full size cut.

No. 50—Spice Box, Nickel-Plated ..... per doz. $18.00
" 60— " " Bottle Shape ..... " 18.00



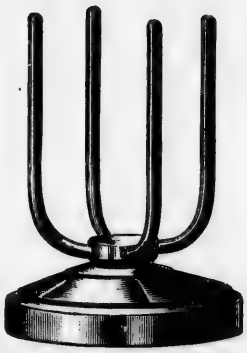
No. 55



No. 65

No. 55—Mineral Glass Holder, Nickel-Plated, with Spring Band ..... per doz. 4.30
" 65—Soda Glass Holder, Silver-Plated on Nickel-Silver ..... " 18.00

# BAR SUPPLIES



GINGER ALE BOTTLE HOLDER



SPUN SHAKER



LIQUOR JIGGER. Full size cut.

| | | | |
|---|---|---|---|
| No. 10—Ginger Ale Bottle Holders, Nickel Silver | per doz. | $8.65 |
| " 2—Tin Shaker, Flaring, Mouth 3⅛ inches Diameter, Length 5½ inches | " | 2.90 |
| " 3— " " " 3⅜ " " " 5½ " | " | 2.90 |
| " M—Spun Copper Shakers, Nickel-Plated, Mouth 3½ inches Diameter, Length 5½ inches | " | 12.25 |
| " C— " " " " 3⅜ " " " 5½ " | " | 14.40 |
| " D— " " " " 3¾ " " " 7 " | " | 19.45 |

## COMBINATION SHAKERS

| | | |
|---|---|---|
| No. 2—Shaker and Strainer Combined, Nickel-Plated | per doz. | 32.40 |

## LIQUOR JIGGERS

| | | |
|---|---|---|
| No. 1—Liquor Jiggers, Nickel-Plated | per doz. | 9.35 |
| " 2— " " Combination, Pony and Regular Size | " | 10.80 |

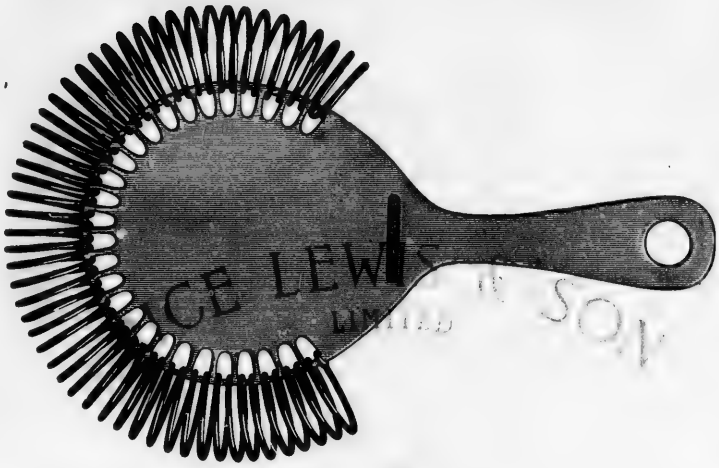
## ICE SCOOPS



| | | |
|---|---|---|
| No. 1—Ice Scoop, Heavy, Nickel-Plated | per doz. | 18.00 |
| " 2— " " " with Wood Handle | " | 15.85 |

# BAR SUPPLIES

## STRAINERS



No. 1—Julep Strainer, Nickel, Silver-Plated..... per doz. $10.80



RIBBED



CLIMAX

No. 2—Ribbed Strainer, Nickel-Plated ..... per doz. 5.75
" 3—Climax " " " ..... " 10.80

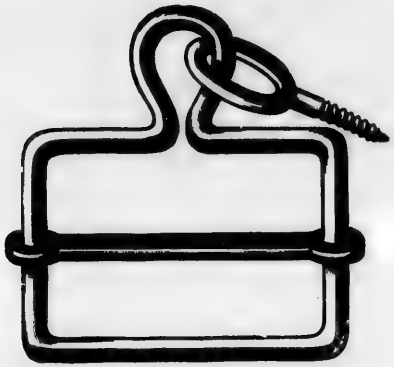
# BAR SUPPLIES



MUDDLER



WHIRLING SPOON



HAUCK'S TOWEL HOLDER



RIBBED TOWEL HOLDER

| | | | |
|---|---|---|---|
| No. **81**—Whirling Spoon, Nickel-Plated | per doz. | $28.80 |
| " **82**—Bar Spoons, " " Round Handle, Length 5 inches | " | 2.90 |
| " **83**—" " " " " " " 7½ " | " | 3.60 |
| " **84**—Muddlers, Nickel-Plated, Length 6 inches, as per cut | " | 5.75 |
| " **85**—" Wood, " 6 " | " | 1.45 |
| " **86**—Hauck's Patent Towel Holders, Nickel-Plated | " | 3.60 |
| " **87**—Ribbed Towel Holders, " " | " | 2.15 |



No. 70



No. 75



No. 80

| | | |
|---|---|---|
| No. **70**—Mounted Cork, with Chain and Spring, Nickel-Plated | per doz. | 2.20 |
| " **75**—Bottle Caps, Nickel-Plated | " | 1.50 |
| " **80**—Bitter Tubes, Silvered, with Detachable Cork | " | 2.20 |

# BOTTLE STOPPERS



No. 4293



No. 5



No. 4288



No. 409

PRICE LEWIS & SON

| | | | |
|---|---|---|---|
| No. **4293**—Nickel-Plated Metal Body, Loose Key, Rubber Centre | per doz. | $7.65 |
| " **5**—Boxwood Body, Brass Detachable Key, Rubber Centre | " | 5.15 |
| " **1**—Plain Wood Body, Wing Nut, Rubber Centre | " | 0.85 |
| " **3A**—Boxwood, Burnished Ornamental Nut, Rubber Centre | " | 3.00 |
| " **4288**—Nickel-Plated Metal Body, Rubber Centre | " | 5.75 |
| " **409**—White Metal, Cork Lined | " | 3.00 |
| " **409C**— " " Nickel-Plated | " | 3.75 |

## CHAMPAGNE TAPS

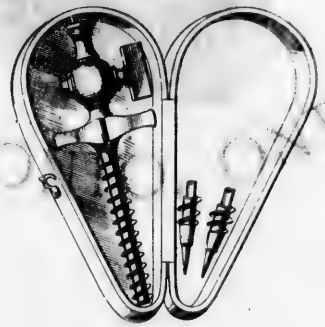
Half size cuts.



No. 50



No. 55



No. 60



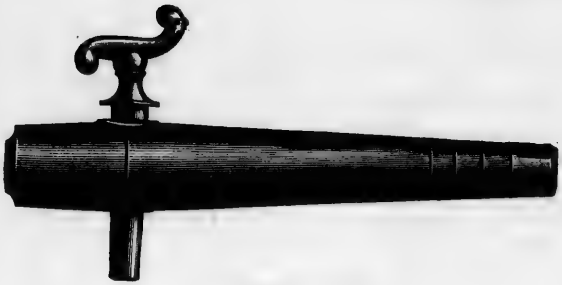
No. 65

TORONTO, ONT.

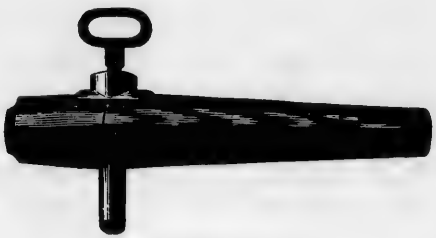
| | | |
|---|---|---|
| No. **50**—Abyssinian Pattern, Nickel-Plated | per doz. | 6.50 |
| " **55**—With Cut Spiral Worm, " | " | 8.40 |
| " **60**—Milne's Patent, in Silk-Lined Leather Case, Nickel-Plated | " | 15.50 |
| " **65**—Ebonite Wood Handle, Cut Worm, Nickel-Plated | " | 10.30 |

# WOOD FAUCETS

## BOKER'S



Nos. 323 and 323½



Nos. 325 and 325½

| Nos | 2-0 | 1-0 | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|---|---|
| No. 323 —Fast Key, Tinned, Polished Cherry ..... per doz. | $0.95 | 1.05 | 1.15 | 1.30 | 1.60 | 2.00 | 2.35 | 2.55 |
| " 323½— " " Stained and Polished Apple..... " | 0.85 | 0.95 | 1.00 | 1.15 | 1.35 | 1.70 | 1.90 | 2.40 |
| " 325 —Loose Key " Polished Cherry..... " | 1.15 | 1.30 | 1.45 | 1.60 | 1.85 | 2.20 | 2.70 | 3.00 |
| " 325½— " " Stained and Polished Apple..... " | 1.05 | 1.15 | 1.25 | 1.35 | 1.55 | 1.85 | 2.15 | 2.65 |

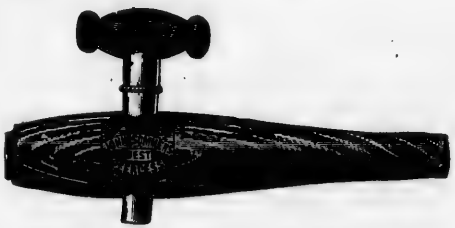
Half-dozen in a package.

## SOMMER'S WOOD FAUCETS



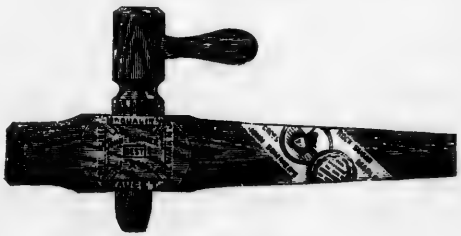
Maple, Polished, Leather Lining, Block Tin Key.

| Nos. | 2 | 3 | |
|---|---|---|---|
| Length | 12 | 14 | inch. |
| Peerless Beer Fauce's, with Tinned Rings ..... per doz. | $7.20 | 8.40 | |



Maple, Polished, Leather Lining, Block Tin Key.

| No | 0½ | 1 | 2 | |
|---|---|---|---|---|
| Length | 8 | 9 | 12 | inch. |
| Peerless ..... per doz. | $4.80 | 5.40 | 6.00 | |



Maple, Cork Lined.

| Nos | 4 | 6 | 8 | |
|---|---|---|---|---|
| Length | 8 | 9 | 10 | inch. |
| IXL, Boiled in Linseed Oil, per doz. | $1.20 | 1.50 | 1.80 | |

## REDLICH'S PATENT CORK LINED

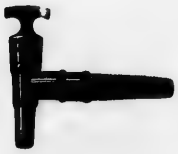
| Nos. | 2 | 4 | |
|---|---|---|---|
| Length | 8 | 10 | inch. |
| Boiled in Gutta Percha ..... per doz. | $1.50 | 1.90 | |

## ORDINARY CORK LINED WOOD FAUCETS

| Nos | 4 | 6 | 8 | |
|---|---|---|---|---|
| Length | 8 | 9 | 10 | inch. |
| Per dozen | $1.00 | 1.25 | 1.50 | |

Beer Vents, Apple Wood, Length 7 inches ..... per doz. $1.65

# WHITE METAL WINE FAUCETS



No. 348

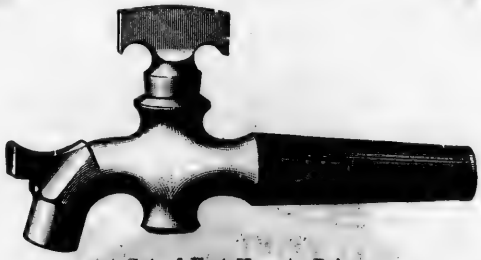


No. 347

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Size Nos | 1 | 2 | 3 | 4 | 5 | 6 | |
| Length over all | 3⅜ | 4 | 4½ | 5 | 5½ | 6 | inch. |
| No. 348—Screw Key ..... per doz. | $1.40 | 1.55 | 2.10 | 2.60 | 3.30 | 3.70 | |
| " 347—Screw Key, for soldering to small basins or barrels, " | .... | .... | 2.25 | .... | .... | .... | |

## BRASS RACKING COCKS

Best Yellow Metal.



Cut of Fast Key, to Drive.

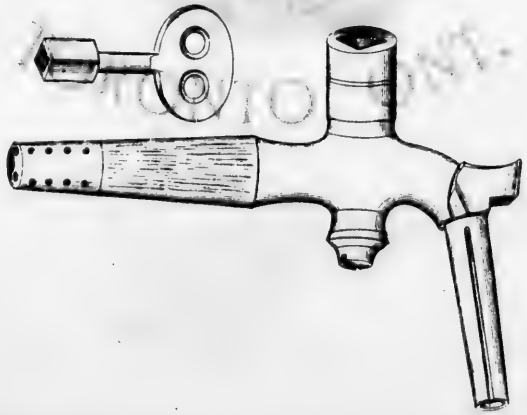
**FAST KEY, TO DRIVE**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Size | 5/16 | 3/8 | 7/16 | ½ | ⅝ | ¾ | inch. |
| Per dozen | $4.15 | 4.50 | 5.25 | 6.50 | 9.00 | 12.40 | |

**LOOSE KEY, TO DRIVE**

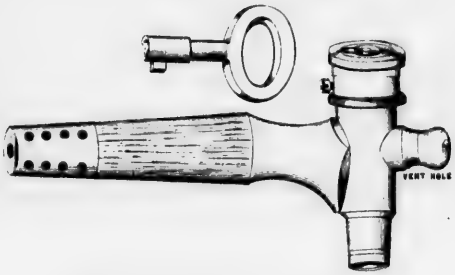
| | | | | | | |
|---|---|---|---|---|---|---|
| Nos. | 403 | 405 | 409 | 413 | 415 | |
| Size | ⅜ | 7/16 | ½ | 11/16 | ⅝ | inch. |
| Per dozen | $4.75 | 5.40 | 7.00 | 8.10 | 9.40 | |

## BOTTLING COCKS



| | | |
|---|---|---|
| Nos. | 947 | 948 |
| Size | ¾ | ⅝ inch. |
| Silver-Plated In and Outside ..... per doz. | $15.15 | 18.75 |

# BEER COCKS

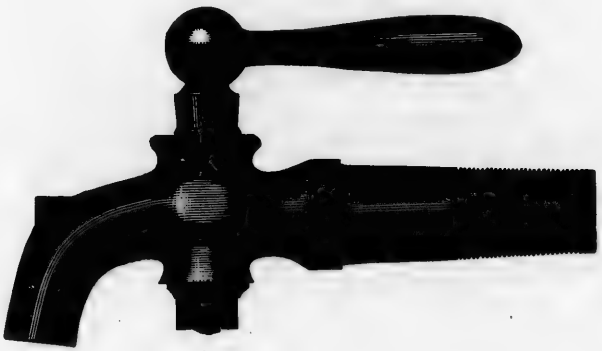



Best Yellow Metal, with Vent.

No. **1704**—⅝ inch, to Drive, with Patent Vent ..... per doz. $15.00

Half dozen in a package.

## PETROLEUM FAUCETS



| Size | ½ | ⅝ | ¾ | 1 inch. |
|---|---|---|---|---|
| With Screw Shank ..... per doz. | $8.25 | 9.00 | 10.50 | 12.00 |

Half dozen in a box.

## PERFECTION FAUCETS



| Inside Diameter | ½ | ¾ | 1 | 1¼ | 1½ | 2 | 3 inch. |
|---|---|---|---|---|---|---|---|
| With Screw Shank ..... per doz. | $9.50 | 12.00 | 14.00 | 16.50 | 20.00 | 28.00 | 36.00 |

Half dozen in a box.

# MOLASSES AND OIL GATES

**STEBBINS'**



| Nos | 1 | 2 | 3 | 4 | |
|---|---|---|---|---|---|
| Inside Diameter | ⅛ | ¼ | 1¼ | 1½ | inch. |
| Per dozen | $7.00 | 8.00 | 9.00 | 10.00 | |

Half dozen in a box.

RICE LEWIS & SON

## MEASURING FAUCETS AND PUMPS

**ENTERPRISE**




No. 65




No. 197

**No. 65**—Improved Patent Suction and Force Measuring Faucet, Tinned, for molasses, thick oils, tar, etc., Imperial Measure ..... each $4.25

**No. 197**—Self-Priming and Measuring Pump, Tinned, for measuring molasses, heavy oils, tar and other thick liquids. Has a patent Clamp, operated by Thumbscrew, to fasten to barrel; extreme length 54 inches; each revolution of the Crank pumps a gill, 4 revolutions a pint, etc., Imperial Measure ..... each $7.50

**Special 3 inch Auger, as shown, extra** ..... each 1.15

# CORK SCREWS

## FOLDING POCKET CORK SCREWS



No. 621



No. 6868



No. 671



No. 7282

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. | 621-6— | Width 3 | inches, | Round Worm, | Polished | per doz. | $1.25 |
| " | 6868N— | " 2¾ | " | " | Nickel-Plated | " | 3.00 |
| " | 488N-6— | " 3 | " | " | " " | " | 1.90 |
| " | 671-5— | " 2½ | " | " | Polished | " | 0.70 |
| " | 7157— | " 2½ | " | " | " Heavy | " | 2.25 |
| " | 7282-5— | " 2¾ | " | " | Left Hand, Nickeled | " | 1.65 |



No. 2398



No. 1368



No. 5364



No. 09NP

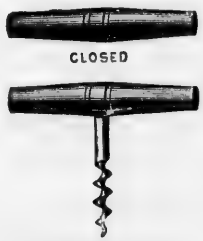


No. 5312

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. | 2398 —Width | 3¼ | inches, | Twisted Fluted Worm, | Hard Polished | per doz. | 6.65 |
| " | 2403 — " | 2 | " | " " " | " " | " | 4.15 |
| " | 1368 — " | 1¼ | " | " " " | " " | " | 4.70 |
| " | 2368 — " | 1⅛ | " | " " " | Plain " | " | 3.65 |
| " | 5364 — " | 3 | " | Cyphered Worm, | Hard Polished | " | 6.35 |
| " | 09NP—Length | 4 | " | Sharp " | Brass Case, 1¼ inch Heavy Split Ring | " | 4.25 |
| " | 5312 — " | 2¾ | " | Peg and Fluted Worm, | Hard Polished | " | 3.95 |




No. 7171




BARREL SHAPE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. | 7171 —Pocket Lever, | Length 4 | inches, | Sharp Worm, | Nickel-Plated | per doz. | 5.45 |
| " | 6038 —Barrel Shape, | " 3 | " | " " | Metal Case, Nickel-Plated | " | 2.40 |
| " | 583N— " | " 3 | " | Round " | Brass " " " | " | 6.60 |
| " | 9373— " | " 2¾ | " | Twisted Fluted Worm, | Brass Case, Nickel-Plated | " | 7.80 |
| " | 1374— " | " 3¼ | " | " " | " " " " | " | 9.65 |

# CORK SCREWS



No. 7296



No. 7093



No. 7310



No. 6145



No. 6151

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| No. **7296**—Wood Handle, | Length | 5 | inches, | Sharp | Worm | | | per doz. | $1.05 |
| " **7093**— " " | " | 5½ | " | " | " | | | " | 2.05 |
| " **7310**—Buff " | " | 4½ | " | Round | " | | | " | 2.85 |
| " **6145**—Wood " | " | 6 | " | Sharp | " | | | " | 2.75 |
| " **6151**— " " | " | 5 | " | " | " | Nickle-Plated, with Plated Ferrules | | " | 3.15 |
| " **6154**—As No. 6151 | " | 5½ | " | " | " | " " " " | | " | 4.20 |

## SOLID HANDLE CORK SCREWS



No. 6364



No. 1886



No. 7110



No. 527½



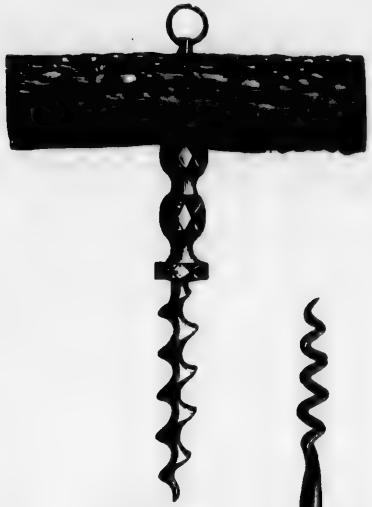
No. 0195

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| No. **520**—Iron, Solid, | Width | 2¾ | inches, | Sharp | Worm, | Bright | | per doz. | 0.35 |
| " **6364**—Iron Head, | " | 3 | " | Round | " | Nickel-Plated | | " | 2.65 |
| " **1886**— " " | " | 3 | " | Sharp | " | Bright Finish | | " | 1.25 |
| " **7110**— " " | " | 3 | " | Round | " | Coppered | | " | 2.80 |
| " **527½**— " " | " | 2¾ | " | Sharp | " | Bronzed | | " | 1.00 |
| " **0195**— " " | " | 3 | " | Round | " | " | | " | 2.45 |
| " **7020**— " " | " | 3½ | " | " | " | Polished, Style as No. 0195 | | " | 1.15 |

# CORK SCREWS

## ENGLISH MAKE

Half size cuts.



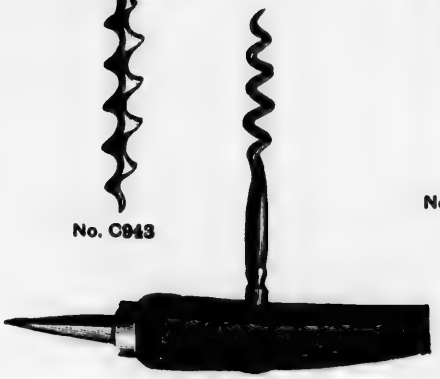
No. C943



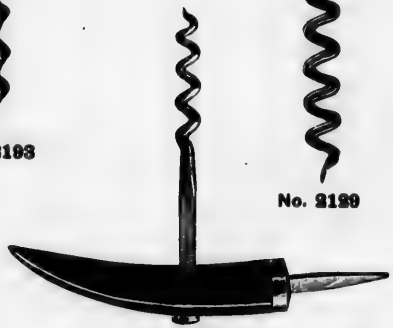
No. 2193



No. 2129



No. 6122



No. 2121



No. 7135



No. L015



No. 9369

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. **C943**—Stag Horn Handle, | Sharp | Worm, | Nickel-Plated | per doz. | $9.35 |
| " **2193**—Black Wood " | " | " | " | " | 4.70 |
| " **2129**—Stag Horn " | Fluted | " | " | " | 8.40 |
| " **6122**—Pressed " | Round | " | Polished | " | 3.55 |
| " **2121**—Buff " | " | " | " | " | 3.35 |
| " **7135**—Stag " | " | " | Nickel-Plated | " | 2.25 |
| " **L015**—Malleable Iron " | Sharp | " | Bronzed | " | 2.60 |
| " **9369**—Bone " | Round | " | Hard Polished | " | 6.75 |

# SELF-PULLING CORK SCREWS



No. 1397



No. 5479




No. 34

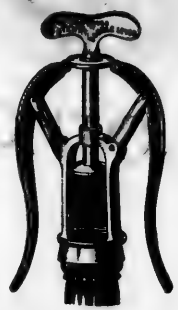
RICE LEWIS & SON

| | | | |
|---|---|---|---|
| No. **1397**—Challenge, Bronzed, Round Worm | per doz. | $10.30 |
| " **5479**—Surprise, " Sharp " | " | 7.75 |
| " **1719N**—Nickel-Plated, Round Worm, Wood Head with Spiral Spring, Style as No. 5479 | " | 2.00 |
| " **34**— " Sharp " " | " | 5.40 |

# LEVER CORK SCREWS



No. 6429



No. A1

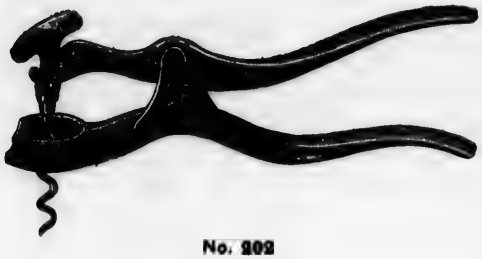


No. 2424

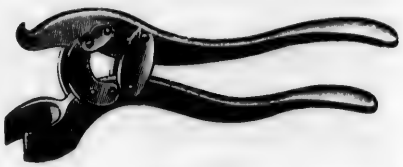
| | | |
|---|---|---|
| No. **6429**—New Patent Double Lever Cork Screw, Copper Bronzed | per doz. | 11.00 |
| " **A1**—Improved " " " | " | 14.65 |
| " **2424**—Compound Lever Cork Screw, 4 Levers, Copper Bronzed | " | 14.65 |
| " **7430**— " " 2 " " Style of No. 2424 | " | 9.75 |

$9.35
4.70
8.40
3.55
3.35
2.25
2.60
6.75

# LEVER CORK SCREWS



No. 202



No. L 515

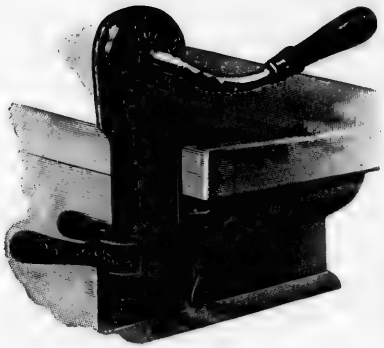


No. 225

No. **202**—Lund's Genuine, Bronzed, complete, with Shank and Worm.....per doz. $9.10
" **315**— " Pattern, " " " " " " " ..... " 5.50
" **L 515**—Tangent " " " " " " " ..... " 8.00
" **225**—Extra Bronzed Shank and Round Worms, for Lever Cork Screws ..... " 3.35

## STATIONARY CORK PULLERS

Adapted for use in Hotels, Bar-Rooms, Clubs, Restaurants, etc.



CHAMPION




No. 1236

**Champion**—Nickel-Plated, with Latest Improved Bottle Holding Clamp.....each $5.50
No. **1236**— " Powerful, Quick Worker..... " 4.55

These Machines will quickly and safely draw the cork from any bottle, and as readily re-cork it.

One in a Wood Box, one half dozen in a Case.

# DIAMOND ENAMELLED WARE

## TEA CUPS AND SAUCERS





SEAMLESS STRAIGHT MUGS — IMPROVED PATTERN SAUCERS — IMPROVED PATTERN TEA CUPS

| Nos. | | 7 | 8 | 9 | 10 | 11 | 13 | 14 | 15 |
|---|---|---|---|---|---|---|---|---|---|
| Inches | | 3¼ x 3 | 3¼ x 3½ | 3½ x 3¾ | 4¼ x 3½ | 4¼ x 4 | 5½ x 4½ | 5¼ | 5½ |
| Straight Mugs | per doz. | $1.75 | 2.00 | 2.35 | 2.75 | 3.25 | 4.00 | .... | .... |
| Tea Cups | " | .... | 1.90 | 2.00 | 2.25 | .... | .... | .... | .... |
| Saucers | " | .... | .... | .... | .... | .... | .... | 1.30 | 1.50 |

NOTE.—The Improved Pattern Tea Cups are same diameter, but one inch less in depth, than the Straight Mugs.

## SEAMLESS BOWLS



| Inches | 6 | 7 | 8 | 10 | 12 |
|---|---|---|---|---|---|
| Per doz. | $2.25 | 3.00 | 3.50 | 7.00 | 11.00 |

## SOUP PLATES



| Inches | 7 | 8 | 9 | 10 |
|---|---|---|---|---|
| Per doz. | $1.60 | 1.80 | 2.00 | 2.50 |

## DINNER OR PIE PLATES



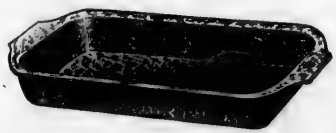
| Inches | 7 | 8 | 9 | 10 |
|---|---|---|---|---|
| Per doz. | $1.60 | 1.80 | 2.00 | 2.50 |

## FRYING PANS



| Nos. | | 7 | 8 | 9 |
|---|---|---|---|---|
| Diameter of Bottom | | 8¼ | 9½ | 10½ inch. |
| Re-tinned Handles | per doz. | $6.75 | 7.50 | 8.00 |

## OBLONG ROAST PANS



| Nos. | 6 | 7 | 8 | 9 |
|---|---|---|---|---|
| Inches | 8 x 14 | 10 x 15 | 11 x 16 | 12 x 17 |
| Seamless, per doz. | $8.00 | 9.50 | 10.50 | 12.50 |

## JELLY CAKE PANS



| Inches | 9 | 10 |
|---|---|---|
| Per doz. | $2.75 | 3.25 |

# DIAMOND ENAMELLED WARE

## TEA POTS



With Re-tinned Covers.

| Nos | 0 | 10 | 20 | 30 | 40 | 50 |
|---|---|---|---|---|---|---|
| Quarts | 1 | 1¼ | 2 | 3 | 4 | 5 |
| Per dozen | $8.00 | 9.00 | 10.00 | 11.50 | 13.00 | 15.00 |

## COFFEE POTS



With Re-tinned Covers.

| Nos | 15 | 25 | 35 | 45 | 55 |
|---|---|---|---|---|---|
| Quarts | 1½ | 2 | 3 | 4 | 5 |
| Per dozen | $9.00 | 10.00 | 11.50 | 13.00 | 15.00 |

## TEA KETTLES



Pit Bottom.

| Nos | 7 | 8 | 9 |
|---|---|---|---|
| Quarts | 5 | 7 | 8 |
| Per dozen | $18.00 | 20.00 | 24.00 |



Flat Bottom.

| Nos | 50 | 60 | 70 | 80 | 90 |
|---|---|---|---|---|---|
| Inches | 6 | 7½ | 8½ | 9½ | 10½ |
| Per dozen | $14.00 | 16.00 | 18.00 | 20.00 | 24.00 |

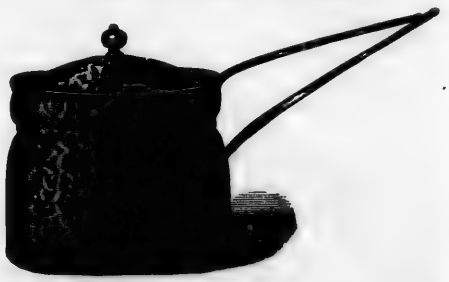
## TEA STEEPERS



Seamless, with Re-tinned Covers.

| Nos | 1 | 2 |
|---|---|---|
| Inches | 4¼ x 3¾ | 4¾ x 4 |
| Per dozen | $5.00 | 6.00 |

## RICE OR MILK BOILERS



Seamless.

| Nos | 52 | 53 | 54 | 56 |
|---|---|---|---|---|
| Pints (inside Boiler) | 2 | 4 | 6 | 8 |
| Per dozen | $13.50 | 17.50 | 22.00 | 27.00 |

# DIAMOND ENAMELLED WARE

## LIPPED PRESERVING KETTLES



| Nos | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 36 | 40 |
|---|---|---|---|---|---|---|---|---|---|
| Quarts | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 18 |
| Inches | 8½ | 9¼ | 10 | 10⅝ | 11½ | 12 | 13 | 13⅝ | 14¼ |
| Per dozen | $6.00 | 7.00 | 8.00 | 9.00 | 10.50 | 12.50 | 15.00 | 18.00 | 22.50 |

## DEEP PUDDING PANS



| Quarts | 1 | 1½ | 2 | 3 | 4 | 6 |
|---|---|---|---|---|---|---|
| Inches | 6⅛x2⅜ | 7⅜x2⅜ | 8⅛x2⅜ | 9⅛x3¼ | 10x3⅜ | 11¼x3½ |
| Per dozen | $3.00 | 3.50 | 4.00 | 4.50 | 5.00 | 6.50 |

## OBLONG PUDDING DISHES



| Nos | 10 | 11 | 12 | 13 |
|---|---|---|---|---|
| Inches | 10⅜ | 11 | 12 | 13 |
| Per dozen | $4.00 | 4.50 | 5.50 | 6.50 |

## MILK PANS



| Quarts | ½ | 1 | 1½ | 2 | 3 | 4 | 6 | 8 | 10 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|
| Inches | 6⅛ x 1⅛ | 7 x 1⅛ | 7⅛ x 1⅞ | 8⅛ x 2 | 9¼ x 2¼ | 10⅜ x 2½ | 12¼ x 3 | 13½ x 3 | 14 x 3½ | 15⅝ x 3½ |
| Per dozen | $2.00 | 2.50 | 3.00 | 3.50 | 4.00 | 5.00 | 6.00 | 6.50 | 7.00 | 8.50 |

## BASTING SPOONS



| Inches | 12 | 14 | 16 |
|---|---|---|---|
| Heavy, Threaded Handles ..... per doz. | $1.75 | 1.90 | 2.00 |

# DIAMOND ENAMELLED WARE

## LIPPED SAUCE PANS



## WINDSOR SAUCE PANS



### LIPPED SAUCE PANS

| Nos. | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 |
|---|---|---|---|---|---|---|---|---|---|
| Quarts | ¾ | 1 | 1½ | 2 | 2½ | 3 | 4 | 5 | 6 |
| Inches | 5½ | 5⅞ | 6⅜ | 7⅛ | 7⅞ | 8¼ | 9¼ | 10 | 10¾ |
| Per dozen | $2.50 | 3.00 | 3.50 | 4.00 | 5.00 | 6.00 | 7.00 | 8.00 | 9.00 |

### WINDSOR SAUCE PANS

| Nos. | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 |
|---|---|---|---|---|---|---|---|---|
| Quarts | 1 | 1½ | 2 | 2½ | 3 | 4 | 5 | 6 |
| Inches | 5⅞ | 6⅜ | 7⅛ | 7⅞ | 8¼ | 9¼ | 10 | 10¾ |
| With Re-tinned Covers, per doz. | $4.50 | 5.25 | 6.00 | 7.00 | 8.00 | 9.25 | 10.50 | 12.00 |

## STRAIGHT SAUCE PANS



Seamless, with Re-tinned Covers.

## SEAMLESS KETTLES



Seamless, with Re-tinned Covers.

### STRAIGHT SAUCE PANS

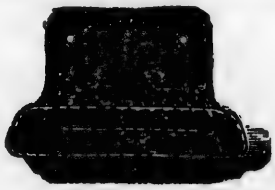
| Nos. | 200 | 300 | 400 | 600 | 800 | 1000 |
|---|---|---|---|---|---|---|
| Inches | 5⅜x4¼ | 6¼x4⅜ | 7⅜x5 | 8¼x5½ | 9¼x6 | 10¼x6½ |
| With Re-tinned Covers, per doz. | $5.00 | 6.00 | 7.50 | 9.00 | 11.00 | 13.00 |

### SEAMLESS PAILS OR KETTLES

| Quarts | 1 | 2 | 3 | 4 | 6 | 8 | 10 |
|---|---|---|---|---|---|---|---|
| Inches | 4⅜x4 | 5⅛x4¼ | 6¼x4⅜ | 7⅜x5 | 8¼x5½ | 9¼x6 | 10¼x6½ |
| With Re-tinned Covers, per doz. | $4.50 | 5.00 | 6.00 | 7.50 | 9.00 | 11.00 | 13.00 |

# DIAMOND ENAMELLED WARE

## HANGING SOAP DISHES



| No | 60 |
|---|---|
| Inches | 5½ |
| Per dozen | $3.00 |

## WASH BOWLS



| Nos | 26 | 28 | 30 | 32 | 36 |
|---|---|---|---|---|---|
| Inches | 10½ | 11½ | 12½ | 13 | 14½ |
| Per dozen | $4.00 | 4.50 | 5.50 | 6.50 | 8.50 |

## WATER BUCKETS

## WATER PITCHERS



| Nos | 13 | 15 | 17 |
|---|---|---|---|
| Quarts | 2 | 3 | 4 |
| Pieced....per doz. | $9.00 | 11.00 | 13.50 |
| Seamless.. " | 10.00 | 12.00 | 15.00 |



| Nos | 110 | 114 |
|---|---|---|
| Quarts | 10 | 14 |
| Per dozen | $12.50 | 16.50 |

## CHAMBERS



| Nos | 18 | 20 | 22 | 24 |
|---|---|---|---|---|
| Per dozen.... | $4.80 | 5.50 | 6.75 | 8.50 |

## FUNNELS



## DIPPERS



## MEASURES



| Size | | ½ | 1 | 2 | 4 pints. |
|---|---|---|---|---|---|
| Funnels | per doz. | $2.75 | 3.25 | 4.25 | 5.50 |

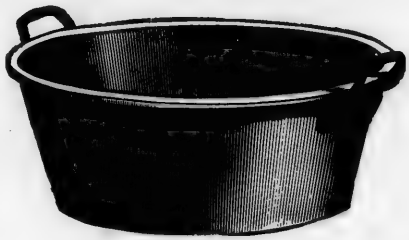
Family Dippers, 6½ inches ..... per doz. $5.00

| Size | | ½ pt. | 1 pt. | 1 qt. | ½ gal. | 1 gal. |
|---|---|---|---|---|---|---|
| Imperial Measures | per doz. | $7.00 | 8.50 | 10.50 | 12.50 | 17.50 |
| " " | per set (5) | | | | | 4.65 |

**These Measures are Government Stamped.**

# TINWARE

## DISH PANS



Stamped, Flat Edges.

| Quarts | 8 | 10 | 14 | 17 | 21 |
|---|---|---|---|---|---|
| Inches | 13½ x 4½ | 15 x 5 | 16½ x 5½ | 18 x 5¾ | 19½ x 6¾ |
| IC....per doz. | $5.75 | 7.00 | 8.25 | 9.75 | ..... |
| **RE-TINNED** | | | | | |
| IC....per doz. | $8.35 | 9.25 | 10.75 | 12.50 | ..... |
| IX.... " | 9.25 | 10.25 | 12.25 | 14.75 | 17.50 |

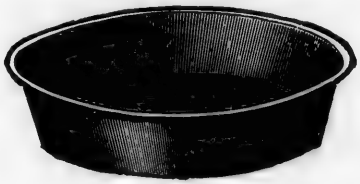
## KNEADING PANS



Stamped.

| Quarts | 17 | 21 |
|---|---|---|
| Inches | 17½ x 6¾ | 19⅜ x 7½ |
| IC, with Covers....per doz. | $33.25 | ..... |
| IX, " " " | 39.00 | 50.00 |
| Covers only, Plain " | 7.75 | 10.00 |
| " Re-tinned " | 11.25 | 13.35 |

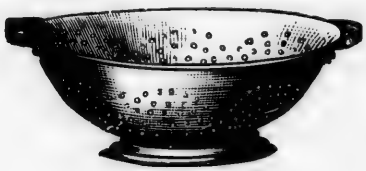
## MILK PANS



Stamped.

| Quarts | ¼ | ½ | 1 | 1½ | 2 | 3 | 4 | 6 | 8 | 10 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Inches | 4⅛ x 1⅝ | 6⅛ x 1½ | 7 x 1¾ | 7⅝ x 1⅝ | 8⅛ x 2 | 9⅛ x 2⅜ | 10⅛ x 2½ | 12⅛ x 3 | 13½ x 3 | 14 x 3½ | 16 x 3½ |
| IC, Plain....per doz. | $0.95 | 1.05 | 1.25 | 1.55 | 1.75 | 2.05 | 2.65 | 3.35 | 4.00 | 4.45 | 5.25 |
| IC, Re-tinned " | 1.40 | 1.65 | 2.00 | 2.40 | 2.65 | 3.05 | 4.00 | 5.00 | 6.00 | 6.65 | 7.75 |

## CULLENDERS



Stamped.

| No. | 306 |
|---|---|
| Inches | 11½ |
| Re-tinned....per doz. | $7.75 |

## MILK STRAINERS



Stamped.

| Nos | 21 | 22 | 23 |
|---|---|---|---|
| Inches | 8 | 10½ | 11½ |
| Plain....per doz. | $3.35 | .... | .... |
| Re-tinned " | 4.50 | 6.65 | 7.75 |

# TINWARE

## DAIRY PAILS



Stamped, Extra Heavy.

| Nos. | | 12 | 14 | 16 |
|---|---|---|---|---|
| IX, Plain | per doz. | $10.50 | 12.50 | 14.50 |
| IXX, Re-tinned, Malleable Ears | " | 16.50 | 19.00 | 21.75 |

## MILK STRAINER PAILS



Pieced.

| Quarts | | 10 | 14 |
|---|---|---|---|
| I.C. | per doz. | $3.60 | 4.20 |
| With Feet, Extra | " | 0.30 | 0.37 |

## COVERED PAILS



Pieced.

| Quarts | | 1 | 2 | 3 | 4 | 6 | 8 | 12 | 16 |
|---|---|---|---|---|---|---|---|---|---|
| Covered Pails | Per gross | $10.80 | 12.60 | 14.40 | 19.80 | 25.20 | 33.30 | 41.40 | 51.30 |

## STEAMERS



Pieced.

| Nos. | | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|
| Steamers | per doz. | $2.47 | 2.62 | 2.77 | 4.12 |

## ROUND DINNER PAILS



Pieced.

| Quarts | | 3 | 4 |
|---|---|---|---|
| Round Dinner Pails, with Cup and Tray | per doz. | $2.10 | 2.70 |

# TINWARE

## PUDDING PANS



Stamped, Extra Deep.

| Quarts | 1 | 1½ | 2 | 3 | 4 | 6 | 8 | 10 |
|---|---|---|---|---|---|---|---|---|
| Inches | 6½ x 2⅜ | 7⅜ x 2⅜ | 8⅛ x 2⅞ | 9½ x 3¼ | 10½ x 3¼ | 12 x 3½ | 14 x 3½ | 16 x 3½ |
| Plain ..... per doz. | $1.65 | 1.95 | 2.25 | 2.65 | 3.10 | 4.15 | 5.25 | 6.00 |
| Re-tinned ..... " | 2.50 | 2.75 | 3.35 | 4.00 | 4.50 | 6.00 | 7.35 | 8.65 |

## WASH BOWLS



Stamped, Flat Bottom.

| Inches | 10½ | 11½ | 12½ | 13½ | 14½ |
|---|---|---|---|---|---|
| IC, Plain.... per doz. | $2.55 | 2.90 | 3.30 | 3.75 | 5.00 |
| IC, Re-tinned " | 3.60 | 4.10 | 4.65 | 5.35 | 7.55 |
| IX, Plain..... " | 3.00 | 3.25 | 4.00 | 5.00 | 6.75 |
| IX, Re-tinned " | 4.50 | 5.00 | 5.50 | 6.75 | 9 50 |

## DIPPERS



Stamped, Extra Heavy.

| Inches | 6¼ x 4 |
|---|---|
| Quarts | 1 |
| Re-tinned ..... per doz. | $6.65 |

## TEA KETTLES



Pieced.

| Nos | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|
| Flat Tin Bottoms, IC .. per doz. | $2.70 | 3.00 | 3.60 | .... | .... |
| Pit Copper Bottoms, IC " | 4.50 | 4.87 | 5.25 | 5.85 | 6.90 |
| Pit Copper Bottoms, IX " | .... | 5.62 | 6.00 | 6.75 | 7.87 |

## OVAL WASH BOILERS



Pieced.

| Nos | 7 | 8 | 9 | 10 |
|---|---|---|---|---|
| Flat Tin Bottom, IC ..... each | .... | $0.67 | 0.75 | .... |
| " " IX ..... " | .... | 0.82 | 0.90 | .... |
| Flat or Pit Copper Bottom, IC " | $1.05 | 1.05 | 1.20 | 1.65 |
| " " " IX " | 1.20 | 1.20 | 1.35 | 1.87 |

# TINWARE

## PIE PLATES



Stamped.

| Inches | 6 | 7 | 8 | 9 | 10 | 11 |
|---|---|---|---|---|---|---|
| Per gross | $9.75 | 11 75 | 13.75 | 15.75 | 21.25 | 26.50 |

## JELLY CAKE PLATES



Stamped.

| Inches | | 8 | 9 | 10 |
|---|---|---|---|---|
| Plain, Deep | per gross | $19.50 | 21.75 | 27.75 |
| Re-tinned, Deep | " | 28.75 | 32.25 | 41.25 |

## CAKE PANS

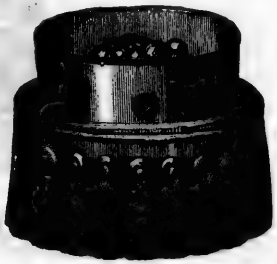


Stamped.

| Inches | | 6 | 8 | 10 |
|---|---|---|---|---|
| Scalloped, Tubed | per doz. | $1.65 | 1.90 | 2.35 |

## JELLY MOULDS





Stamped.

| Nos | 10 | 15 | 20 |
|---|---|---|---|
| Quarts | 1 | 1½ | 2 |
| Re-tinned per doz. | $8.35 | 9.75 | 11.10 |

Stamped, Rimmed, Re-tinned Copper Tops.

| Pints | 1 | 1½ | 2 | LION |
|---|---|---|---|---|
| Per dozen | $13.05 | 15.25 | 19.70 | 19.70 |

## FRENCH DARIEL OR JELLY CUPS



Assorted Patterns, Re-tinned ..... per doz. $3.35

# TINWARE

## MUFFIN PANS



Stamped, on Frame.

| Nos. | 6 | 8 | 12 |
|---|---|---|---|
| Cups on Frame | 6 | 8 | 12 |
| Per doz. | $5.00 | 6.40 | 9.35 |

## TURK'S HEAD PANS



Stamped, on Frame.

| Nos. | 106 | 108 | 112 |
|---|---|---|---|
| Cups on Frame | 6 | 8 | 12 |
| Per doz. | $5.75 | 7.25 | 10.50 |

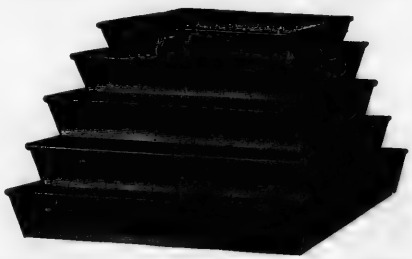
## BREAD PANS



Stamped.

| Nos. | 1 | 2 | 3, BOSTON | 110 | 210 |
|---|---|---|---|---|---|
| Inches | 10½ x 6½ x 2 | 9½ x 5½ x 2½ | 10½ x 6½ x 3¾ | 8½ x 4½ x 3⅛ | 14½ x 4½ x 3⅛ |
| Tin, per doz. | $0.82 | 0.75 | 0.97 | 0.90 | 1.12 |
| Iron, " | 0.82 | 0.75 | 0.97 | .... | .... |

## SHEET IRON AND STEEL WARE



### A I IRON DRIPPING PANS

| Nos. | 6 | 7 | 8 | 8½ | 9 |
|---|---|---|---|---|---|
| Inches | 12 x 9 | 14 x 10½ | 16 x 11½ | 18 x 10 | 17 x 12½ |
| Per doz | $1.05 | 1.50 | 1.80 | 1.95 | 2.02 |

### SHEET IRON OVEN PANS

| Sheets | ½ | ¾ | 1 |
|---|---|---|---|
| Inches | 9 x 15 | 10½ x 15½ | 14 x 19½ |
| Per doz. | $1.12 | 1.50 | 2.02 |

## STEEL FRY PANS




Handle and Body One Piece.

### ACME

| Nos. | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Diameter | 7 | 7½ | 7½ | 8 | 8½ | 9½ inch. |
| Per doz. | $1.87 | 2.10 | 2.32 | 2.62 | 3.00 | 3.37 |

### HEAVY

| Nos. | 7 | 8 | 9 |
|---|---|---|---|
| Diameter across Bottom .. inches | 8½ | 9½ | 10½ |
| Per doz. | $3.15 | 3.67 | 4.35 |

# TINWARE

## IMPERIAL MEASURES



| Size | ½ pt. | 1 pt. | 1 qt. | ½ gal. | 1 gal. |
|---|---|---|---|---|---|
| Polished Ware, Inspected, per doz. | $2.25 | 2.85 | 3.37 | 4.80 | 5.92 |
| Per Set of Five | | | | per set | 1.60 |

## OIL CANS






Flaring Top.

| Gallons | ½ | 1 | 2 | 3 | 5 |
|---|---|---|---|---|---|
| Per dozen | $1.87 | 2.25 | 3.52 | 4.50 | 5.62 |

| Gallons | 5 |
|---|---|
| The Slick, per doz. | $18.00 |

## DUSTPANS



| | | |
|---|---|---|
| IC, Plain | per doz. | $3.00 |
| IC, Japanned | " | 3.60 |
| IX, " | " | 5.00 |

## CUSPIDORS



Assorted Colors, Gold Bands.

| | |
|---|---|
| No. | 10 |
| Daisy, per doz. | $1.06 |

# GALVANIZED STEEL BUCKETS



### IMPROVED PATTERN

| Nos. | 12 | 14 | 16 |
|---|---|---|---|
| Quarts (Wine Measure) | 10 | 13 | 16½ |
| Per dozen | $2.85 | 3.15 | 3.52 |

Riveted Seams supplied at 45 cents per doz. extra.

# SAP PAILS



### EXTRA DEEP AND STRAIGHT, WITHOUT COVERS

| Nos. | 8 | 12 | 16 |
|---|---|---|---|
| Inches | 7½x13 | 8½x13 | 10½x13 |
| Tin, Pieced ..... per 100 | $7.50 | 9.37 | 12.00 |

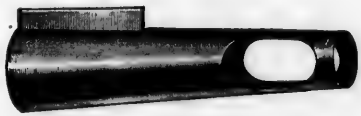
### FLARING, WITHOUT COVERS

| Quarts | 6 | 10 |
|---|---|---|
| Tin, Pieced ..... per 100 | $7.50 | 9.97 |

### COVERS, DETACHABLE

| Nos. | 8 | 12 |
|---|---|---|
| Tin ..... per 100 | $2.62 | 3.37 |

## MAPLE LEAF SAP SPOUTS



Tinned Steel ..... per 1000 $6.75

## DOMINION SAP SPOUTS



Length 2⅞ inches ..... per 1000 $7.50

## GALVANIZED COAL HODS



### STANDARD, OPEN

| Inches | 16 | 17 | 18 |
|---|---|---|---|
| Per dozen | $3.75 | 4.35 | 4.57 |

### STANDARD, FUNNEL

| Inches | 17 | 18 |
|---|---|---|
| Per dozen | $5.40 | 5.77 |

## JAPANNED COAL HODS



### STANDARD, OPEN

| Inches | 16 | 17 | 18 |
|---|---|---|---|
| Plain ..... per doz. | $3.00 | 3.60 | 3.82 |

### STANDARD, FUNNEL

| Inches | 17 | 18 |
|---|---|---|
| Gold Band ..... per doz. | $4.50 | 4.87 |

# CAMP COOK STOVES




No. 1




No. 2

STOVE SET UP AND FOLDED FOR SHIPPING

| | Size of Stove. | Size of Oven. | Pot Holes. | Weight. | | |
|---|---|---|---|---|---|---|
| No. 1—24 x 12 x 12 inches | | 11½ x 12 x 8½ inches | One 8½ inches | 16½ lbs | each | $2.30 |
| " 2—25 x 16 x 14 " | | 16 x 12 x 8½ " | Two 8½ " | 43 " | " | 6.30 |
| " 4—27 x 21½ x 14½ " | | 21½ x 13½ x 8½ " | Four 8½ " | 63 " | " | 8.10 |

No. 2 folds into 25½ x 17 x 3 inches, No. 4 into 27 x 21½ x 3½ inches. No. 1 supplied with 4 lengths of Telescope Pipe, which will extend 3½ feet; Nos. 2 and 3, 5 lengths, which will extend 9½ feet; also Damper for Pipe and Thimble for Tent.

## ALUMINUM CAMPING OUTFITS

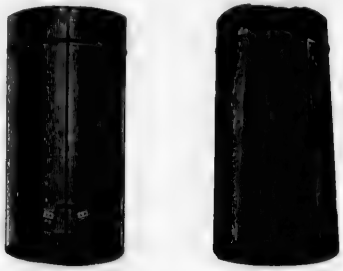


| | | |
|---|---|---|
| No. 1—Set for 3 persons | each | $ 9.90 |
| " 2— " 6 " Weight 3½ lbs | " | 11.70 |

Each Set consists of one 8 quart Pail, 10½ inches diam. x 6½ inches deep; one 6 quart Pail, 9 inches diam. x 5½ inches deep; one 4 quart Pail, 8 inches diam. x 5 inches deep; three or six Cups, 3½ inches diam. x 3 inches deep; three or six Plates, 9 inches diam. Each Set packs inside large Pail. Covers for all the Pails are suitable for Fry Pans, etc., and are supplied with Folding Handles.

# ADJUSTABLE STOVE PIPES





**STANDARD**

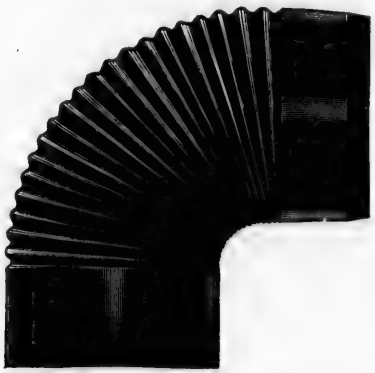
| | 5 | 6 | 7 inch. |
|---|---|---|---|
| Diameter | | | |
| Per 100 lengths | $8.33 | 8.33 | 9.00 |

**TRIUMPH**

| | 5 | 6 | 7 inch. |
|---|---|---|---|
| Diameter | | | |
| Per 100 lengths | $8.65 | 8.65 | 8.65 |

Nestled, 25 Joints in a crate.

## ONE-PIECE ELBOWS



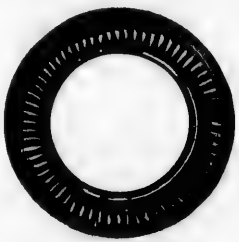
**No. 2, STANDARD**

| | 6 | 7 inch. |
|---|---|---|
| Diameter | | |
| Plain ..... per doz. | $1.15 | 1.15 |
| Polished ..... " | 1.35 | 1.35 |

**No. 1, EXTRA HEAVY**

| | 5 | 6 | 7 inch. |
|---|---|---|---|
| Diameter | | | |
| Plain ..... per doz. | $1.15 | 1.50 | 1.50 |
| Polished ..... " | 1.35 | 1.70 | 1.70 |

## GEM STOVE PIPE COLLARS



| | 5 | 6 | 7 |
|---|---|---|---|
| Inches | | | |
| Per gross | $4.50 | 5.25 | 6.00 |

## GEM FLUE STOPPERS



| | 8 3/16 |
|---|---|
| Inches | |
| Per gross | $7.50 |

# STOVE PIPE DAMPERS




| Size | 5½ | 6 | 7 inch. |
|---|---|---|---|
| Uncle Sam.....per doz. | $1.20 | 1.39 | 1.58 |

The Plate is stamped out of Cold Rolled Steel, Malleable Iron Stem, Enamelled Wood Handle rigidly clamped to the Stem.

## STOVE BOARDS



Embossed, White Brilliant, Wood Lined.

| Size | 30 | 32 | 34 | 36 inch. |
|---|---|---|---|---|
| Square.....per doz. | $30.00 | 31.25 | 32.75 | 34.00 |
| Size | 26 x 34 | 28 x 36 | 30 x 40 inch. | |
| Oblong.....per doz. | $31.00 | 32.00 | 36.00 | |

## STAR THIMBLES

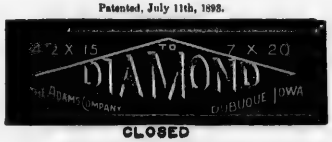


Cast Iron Ends.

| Nos | 3 | 4 | 5 | 6 |
|---|---|---|---|---|
| Size | 6 | 6 | 7 | 7 inch. |
| Extension | 4 to 8 | 7 to 14 | 4 to 8 | 7 to 14 " |
| Per doz | $12.00 | 13.50 | 12.00 | 13.50 |

## DIAMOND EXTENSION STOVE BACK

Patented, July 11th, 1893.




CLOSED

Patented, July 11th, 1893. Canadian Patent, June 14th, 1894.




EXTENDED.

Diamond Extension Stove Backs.....per doz. $9.00

Can be adjusted to fit any width from 4½ to 7 inches, and any length from 15 to 20 inches. All the extending parts are held in a secure position without the use of bolts, wedges or keys.

Half dozen in a box.

# COFFEE AND TEA POTS

POLISHED TIN

## COFFEE POTS



| Quarts | 1 | 1½ | 2 | 3 | 4 |
|---|---|---|---|---|---|
| Polished, per doz. | $1.50 | 1.65 | 1.80 | 1.95 | 2.25 |

## OCTAGON TEA POTS



Bowl Bottoms, Plain Spouts.

| Nos. | 20 | 30 | 40 | 50 | 60 |
|---|---|---|---|---|---|
| Pints | 2 | 3 | 4 | 5 | 6 |
| Per doz. | $1.95 | 2.10 | 2.25 | 2.40 | 2.62 |

## STOVE SHOVELS

JAPANNED




No 70

| Nos. | 70 | 55 | 57 | |
|---|---|---|---|---|
| Length | 15 | 16 | 23 | inch. |
| Per gross | $10.50 | 15.00 | 22.50 | |

Stove Lifters, Malleable Iron, Bronzed ..... per gross $ 5.50
" " Alaska, Nickel-Plated ..... " 22.80

## STEEL SINKS

PAINTED

| Inches | 16 x 24 | 18 x 30 | 18 x 36 |
|---|---|---|---|
| Each | $1.20 | 1.35 | 1.57 |

GALVANIZED

| Inches | 16 x 24 | 18 x 30 | 18 x 36 |
|---|---|---|---|
| Each | $1.57 | 1.87 | 2.17 |



# STOVE POLISH







| | | |
|---|---|---|
| Enameline, Stove Polish, Size No. 4 | per gross | $ 6.75 |
| " " " " " 6 | " | 11.25 |
| Blackene, " " in 5 lb. Tins | per tin | 0.75 |

Enameline one-quarter gross in a box.

## JAMES' DOME BLACK LEAD

| | | |
|---|---|---|
| James' Dome Black Lead | per gross | 3.60 |

Half-dozen domes in a box, 6 boxes in a packages.

## RISING SUN STOVE POLISH

| | | |
|---|---|---|
| Rising Sun Stove Polish, Small Size | per gross | 6.75 |

Two dozen in a package.

## BUTLERS' DIAMOND STOVE PIPE VARNISH

| | | |
|---|---|---|
| In Patent Half-pint Packages | per doz. | 1.30 |

## HARRIS' BLACKING AND HARNESS COMPOSITION





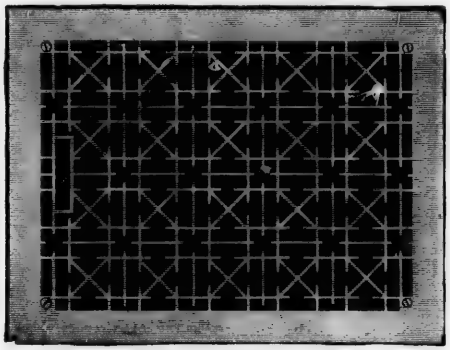


| | | |
|---|---|---|
| **Ebonite Blacking**, Waterproof, free from acid, requires no brushing | per doz. | 4.20 |
| **Ebonite Harness Liquid**, Waterproof, adapted for Harness, Leather Bags, Trunks, Etc | " | 3.40 |
| **Harness Composition**, Waterproof, gives a fine polish, with beneficial effects on Leather | " | 3.20 |
| **Saddle Paste**, Waterproof, for use on Saddles and Brown Harness, Boots, Etc | " | 3.20 |

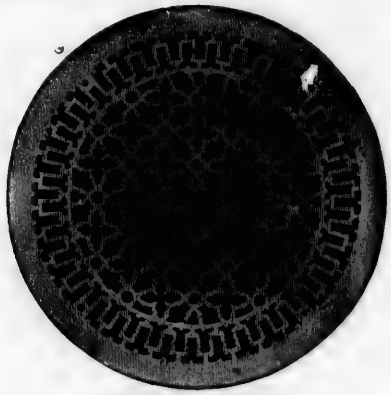
# REGISTERS

## TUTTLE & BAILEY PATTERNS

Vertical Wheel or Glide Movements, Japanned Black or White.



JAPANESE PATTERN



PERSIAN DESIGN

## SQUARE REGISTERS AND VENTILATORS

| Size of Opening. | Register. | Register Face. | Ventilator for Cords. | Floor Border. |
|---|---|---|---|---|
| 6 x 8 inch.....each | $1.90 | $0.65 | $2.15 | $1.15 |
| 8 x 10 " ..... " | 2.50 | 0.85 | 2.75 | 1.40 |
| 8 x 12 " ..... " | 2.80 | 1.00 | 3.05 | 1.50 |
| 9 x 12 " ..... " | 3.30 | 1.25 | 3.55 | 1.55 |
| 9 x 14 " ..... " | 3.60 | 1.50 | 3.85 | .65 |
| 10 x 12 " ..... " | 3.60 | 1.50 | 3.85 | .80 |
| 10 x 14 " ..... " | 4.25 | 1.85 | 4.50 | 1.90 |
| 10 x 16 " ..... " | 4.75 | 2.15 | 5.00 | 2.00 |
| 12 x 15 " ..... " | 6.00 | 2.40 | 6.25 | 2.40 |
| 12 x 17 " ..... " | 6.75 | 2.80 | 7.00 | 2.60 |
| 12 x 19 " ..... " | 7.50 | 3.20 | 7.75 | 2.80 |
| 14 x 18 " ..... " | 8.75 | 3.50 | 9.25 | 3.15 |
| 14 x 22 " ..... " | 10.00 | 3.90 | 10.50 | 3.70 |
| 16 x 24 " ..... " | 13.00 | 6.00 | 13.50 | 4.35 |
| 20 x 24 " ..... " | 18.00 | 8.25 | 18.50 | 6.00 |
| 20 x 26 " ..... " | 20.00 | 8.75 | 20.50 | 6.75 |
| 27 x 27 " ..... " | 29.00 | 14.25 | 29.50 | 8.50 |
| 30 x 30 " ..... " | 38.00 | 17.65 | 38.50 | 10.00 |

**Brilliant, Florentine, Plain or Indian Lattice Patterns** can be supplied on short notice. If Ventilators are for Ceiling overhead, it should be so stated.

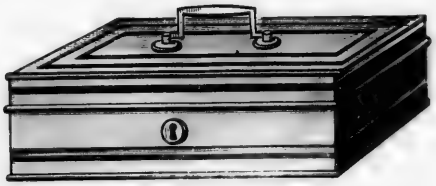
## ROUND SLIDE-CENTRE FLOOR OR WALL REGISTERS

Japanned Black or White.

| Size of Opening. | Register. | Register Face. | Ventilator for Cords | Floor Border. |
|---|---|---|---|---|
| 6 inch .....each | $1.35 | $0.50 | $1 60 | $1.00 |
| 7 " ..... " | 1.50 | 0.60 | 1.75 | 1.10 |
| 8 " ..... " | 1.85 | 0.65 | 2.10 | 1.20 |
| 9 " ..... " | 2.25 | 0.85 | 2 50 | 1.30 |
| 10 " ..... " | 2.75 | 1.00 | 3.00 | 1.40 |
| 12 " ..... " | 3.60 | 1.50 | 3.85 | 1.80 |
| 14 " ..... " | 5.40 | 2.00 | 5.90 | 2.25 |
| 16 " ..... " | 7.00 | 2.70 | 7.50 | 3.00 |
| 18 " ..... " | 9.25 | 3.45 | 9.75 | 4.00 |
| 20 " ..... " | 11.50 | 4.15 | 12.00 | 5.00 |
| 24 " ..... " | 20.75 | 8.00 | 21.50 | 7.50 |
| 30 " ..... " | 34.05 | 13.40 | 34.55 | 12.15 |

If Ventilators are for Ceiling overhead it should be so stated.

# CASH BOXES



**Japanned, Gilt Striped, Brass Handles.**

| Size | **8** | **9** | **10** | **11** | **12** | inch. |
|---|---|---|---|---|---|---|
| No. **4118**—With Tray, 2 Keys ..... each | $0.75 | 0.80 | 0.95 | 1.10 | 1.25 | |

**Japanned, Gilt Striped, Heavy Brass Plate Handles.**

| Size | **9** | **10** | **11** | **12** | inch. |
|---|---|---|---|---|---|
| No. **037**—With Tray, Secure Lever Lock, 2 Keys ..... each | $2.50 | 2.80 | | 3.40 | |

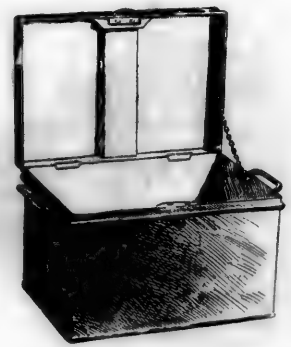
**Japanned, Reinforced Corners, Gilt Striped, Brass Handles.**

| Size | **9** | **10** | **11** | **12** | inch. |
|---|---|---|---|---|---|
| No. **8127**—With Tray, 2 Levers, 2 Keys ..... each | $4.25 | 4.75 | 6.25 | 6.75 | |

**Oak Finish, Brassed Bands, Heavy Brass Plate Handles.**

| Size | **10** | **11** | **12** | inch. |
|---|---|---|---|---|
| No. **137**—With Tray, 4 Secure Levers, 2 Keys ..... each | $5.50 | 6.40 | 7.00 | |

## DEED BOXES



**Japanned, Heavy Steel, Deed Boxes.**

| Size | 12 x 8 x 7½ | 14 x 10 x 9½ | 16 x 11½ x 10 | 18 x 13 x 11 | inch. |
|---|---|---|---|---|---|
| With 2 Flat Steel Keys ..... each | $2.50 | 2.75 | 3.00 | 3.25 | |

**Japanned, Heavy Steel, Despatch Boxes.**

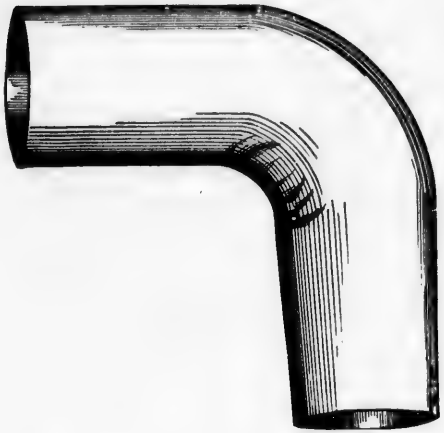
| Size | 12 x 6½ x 4 | 14 x 8 x 5 | inch. |
|---|---|---|---|
| With 2 Flat Steel Keys ..... each | $2.00 | 2.25 | |

## BREAD OR CAKE BOXES

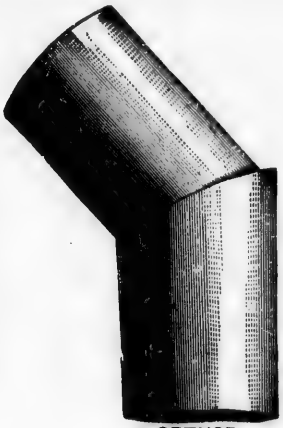



| No. | **1** | **2** | **3** | |
|---|---|---|---|---|
| Size | 16½ x 9½ x 9½ | 17½ x 10½ x 10½ | 18½ x 11½ x 11½ | inch. |
| Japanned ..... each | $0.56 | 0.62 | 0.68 | |

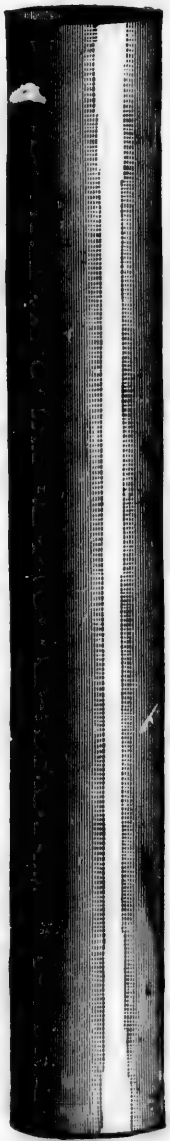
# SPEAKING TUBE AND ELBOWS



ROUND.



OBTUSE.

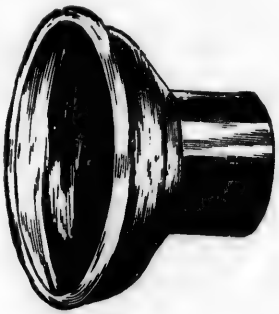


No. 859

No. **859**—Speaking Tube, Lock Seam, 1 inch Diameter ..... per 100 feet $2.70
" **860**—Square Elbows for 1 inch Tube ..... per 100 3.30
" **861**—Round " " ..... " 8.25
" **862**—Obtuse " " ..... " 6.00
" **863**—Speaking Tube **Straps**, Tin ..... " 2.25



No. 30

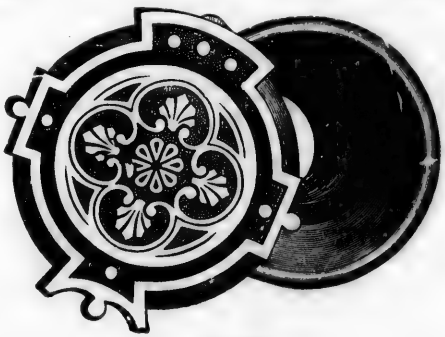


No. 36

No. **30**—Roses for Whistles and Mouth-Pieces, Nickel-Plated ..... per doz. 1.20
" **36**—Open Mouth-Pieces, Nickel-Plated ..... " 2.25



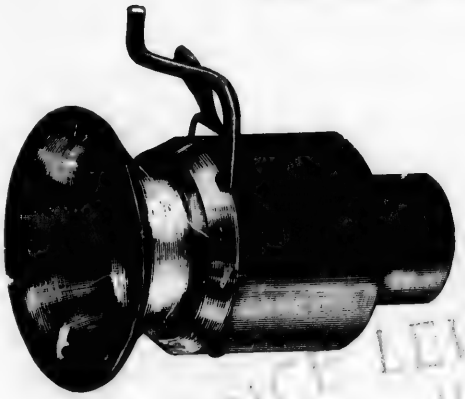
No. 33



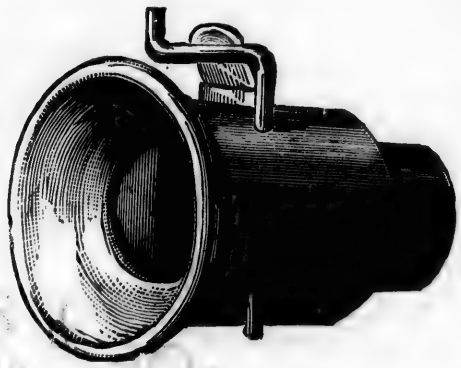
No. 46½

No. **33**—Open Mouth-Pieces, Porcelain ..... per doz. $0.95
" **46½**—Covered " Plain Bronze Metal, Swing Cover ..... " 7.20

# SPEAKING TUBE WHISTLES



No. 158½



No. 1058

No. **158½**—Round Metal Whistle and Indicator, Nickel-Plated.....per doz. $3.00
" **1058**— " " " Porcelain Mouth-Piece, Japanned Body..... " 2.50

## ELBOW SPEAKING TUBE WHISTLE



No. 160

## SLIDE SPEAKING TUBE WHISTLE




No. 190

No. **160**—With Indicator, Porcelain Mouth-Piece, Japanned Body .....per doz. $ 7.50
" **190**— " Nickel-Plated ..... " 20.25

# FLEXIBLE SPEAKING TUBES



No. 78

No. **78**—Flexible Speaking Tube, covered with Black and Green Mohair, 1 inch diam. ..... per foot $0.55

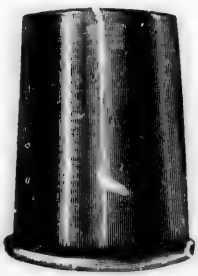
" **93**—24 inch Wall Flexible Tube with Nickel-Plated Metal Whistle and Collars ..... each 3.00



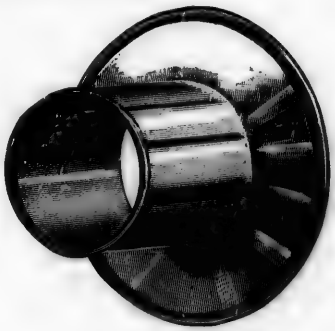
No. 93

## COLLARS

For Protecting Ends of Flexible Tube.



No. 79



No. 81

No. **79**—Nickel-Plated Collars for Ends ..... per doz. $3.00

" **81**— " " Flange Collars ..... " 4.50

# DISH COVERS

**Bright Block Tin with N. P. Handles.**



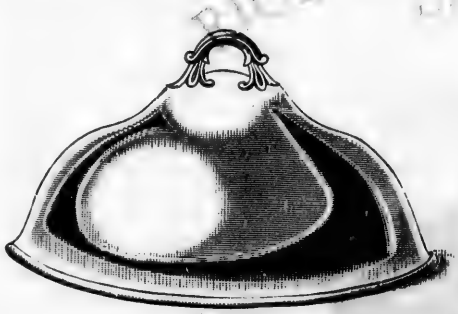
No. 100

| Size | 9 | 10 | 12 | 14 | 16 | 18 inch. |
|---|---|---|---|---|---|---|
| No. 100 each | $0.65 | 0.75 | 1.00 | 1.25 | 1.50 | 1.75 |



No. 101

| Size | 9 | 10 | 12 | 14 | 16 | 18 inch. |
|---|---|---|---|---|---|---|
| No. 101 each | $0.80 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 |



No. 102

| Size | 9 | 10 | 12 | 14 | 16 | 18 inch. |
|---|---|---|---|---|---|---|
| No. 102 each | $1.00 | 1.25 | 1.50 | 2.00 | 2.25 | 2.50 |



No. 103

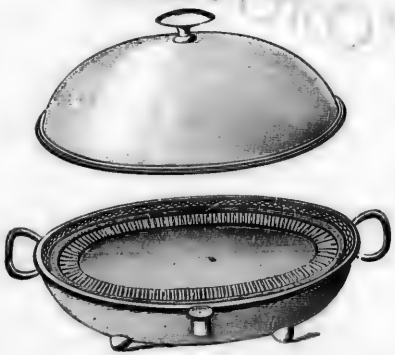
| Size | 9 | 10 | 12 | 14 | 16 | 18 inch. |
|---|---|---|---|---|---|---|
| No. 103 each | $1.60 | 1.80 | 2.00 | 2.40 | 2.80 | 3.50 |

## ROUND PLATE COVERS

| Size | 7 | 8 | 9 inch. |
|---|---|---|---|
| Each | $0.50 | 0.65 | 0.75 |

## HOT WATER BACON DISHES

**With Block Tin Covers.**



| Size | 10 | 12 | 14 inch. |
|---|---|---|---|
| Each | $2.75 | 3.00 | 4.00 |

## HOT WATER PLATES



| Nos. | 200 | 201 |
|---|---|---|
| Each | $0.[illegible] | 1.00 |

# BAKING DISHES

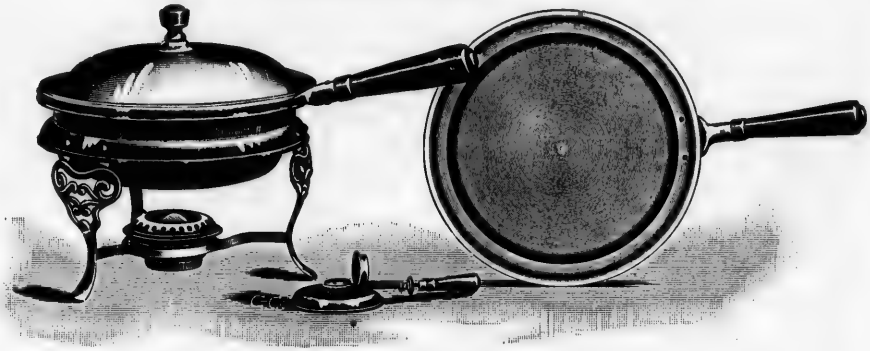
**With Removable Porcelain-Lined Dish, for Serving Direct from the Oven.**



**Round, Nickel-Plated. With or Without Cover.**

| Nos. | 1 | 3 | 4 | 5 |
|---|---|---|---|---|
| Size | 1 | 3 | 3½ | 4 pints. |
| With Covers, each | $2.50 | 4.00 | 4.40 | 5.00 |
| Without Covers " | 1.90 | 3.10 | 3.45 | 3.75 |

## CHAFING DISHES



**With Asbestos Force-Draught Lamps. Nickel-Plated Throughout.**

| Size | 2 | 3 pints. |
|---|---|---|
| Each | $5.00 | 6.30 |

## SPIRIT POCKET STOVES



PHILADOME



No. D546

| Diam. at Base | 3 | 3¼ | 3¾ inch. |
|---|---|---|---|
| No. D546—Napoleon, per doz. | $2.40 | 3.40 | 4.15 |

| | Per doz. |
|---|---|
| **New Pattern,** Alcohol Cooking Stove, as D546, with Tin Kettle. | $ 6.35 |
| **Philadome,** " " " with Copper Kettle | 25.00 |
| **La Favorite,** with attachment suitable for Curling Tongs | 2.25 |

# TABLE KETTLES

With Asbestos Force-Draught Lamps.



Nos. 2650 and 3650



No. 2560



No. 1930

| | | | | | |
|---|---|---|---|---|---|
| No. **2650**— | Polished Brass Kettle, Wrought Iron Stand | | | each | $2.85 |
| " **3650**— | " " " | Brass Stand | | " | 4.70 |
| " **2560**— | " " " | Wrought Iron Stand | | " | 6.75 |
| " **1930**— | " " " | Brass Stand | | " | 7.15 |
| " **1830**— | " " | Kettle only (similar to Kettle on No. 2560 Stand) | | " | 4.45 |



No. 2480



No. 2460



No. 2620

| | | | | | |
|---|---|---|---|---|---|
| No. **2480**— | Polished Brass Kettle, Wrought Iron Stand | | | each | 7.25 |
| " **2460**— | " " " | " " " | | " | 6.15 |
| " **2620**— | " " " | Brass Stand | | " | 4.70 |
| " **1573**— | " " | Kettle only (similar to Kettle on No. 2620 Stand) | | " | 3.15 |

# TABLE KETTLES

With Asbestos Force-Draught Lamps.



No. 1410



No. 2070



No. 2680

| | | | | | | |
|---|---|---|---|---|---|---|
| No. **1410**— | Polished Brass Kettle, Brass Stand | | | | each | $7.85 |
| " **2070**— | " | " | " | Wrought Iron Stand | " | 7.00 |
| " **2070**— | " | " | Kettle only | | " | 3.60 |
| " **2680**— | " | " | " | Wrought Iron Stand | " | 6.70 |

## TABLE KETTLES



No. 1450

| | | |
|---|---|---|
| No. **1450**— | Polished Brass Kettle, Brass Stand | each $9.90 |

## VIENNA COFFEE MACHINES

Polished Brass, with Glass Cover.



No. 85

| Size | 4 | 6 | 8 | 10 | 12 | 20 cups. |
|---|---|---|---|---|---|---|
| No. **85**—Vienna Coffee Machines, each | $5.60 | 6.50 | 7.55 | 8.00 | 8.60 | ..... |
| " **285**— " " " all Brass " | .... | .... | .... | .... | .... | 20.00 |
| Extra Covers " | 0.30 | 0.45 | 0.55 | 0.55 | 0.55 | ..... |

# JAPANNED STEEL TEA TRAYS



No. 7931

| Size | | 12 | 16 | 18 | 20 | 24 inch. |
|---|---|---|---|---|---|---|
| No. **7911**—Neat Gilt Border, Plain Centre | per doz. | $2.00 | 3.00 | 4.25 | 5.00 | 6.20 |
| " **7931**— " " " Fancy Gilt Centre, Hand Rubbed | " | 3.15 | 4.65 | 6.30 | 7.65 | 9.00 |
| " **6934**—Fancy Gilt Border, Plain Centre, Heavy Stock, Hand Rubbed | " | 4.35 | 6.30 | 7.80 | 9.60 | 11.80 |
| " **3930**—Deep Fancy Gilt Border, Plain Centre, Heavy Stock, Double Hand Rubbed | " | 5.40 | 7.20 | 9.00 | 10.80 | 13.80 |
| " **0926**—Heavy Gilt Border and Centre Piece, Extra Heavy Stock with Deep Fillet, Double Hand Rubbed | " | 7.50 | 11.25 | 12.75 | 15.00 | 18.75 |

## HAND-PAINTED STEEL TEA TRAYS



Art Designs, with Nickel Plated Handles.

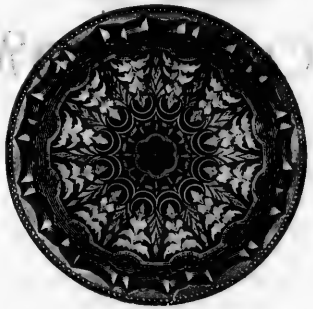
| Size | | 16 | 18 | 20 | 24 inch. |
|---|---|---|---|---|---|
| No. **4188**—Chrysanthemum on Fancy Shaded Background | each | $2.70 | 3.10 | 3.25 | 4.15 |
| " **1619**—Daffodil on Oak Background | " | 2.85 | 3.15 | 3.45 | 5.95 |
| " **9182**—Rose on Fancy Shaded Background | " | 3.00 | 3.40 | 3.65 | 4.65 |
| " **3189**—White Clematis on Oak Background | " | 3.50 | 3.95 | 4.25 | .... |

## CARPATHIAN SILVER TRAYS

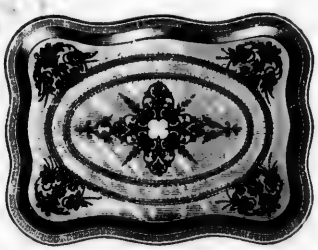
Wear white throughout.



No. 7000



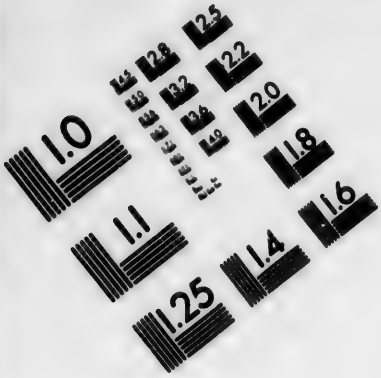
No. 10000

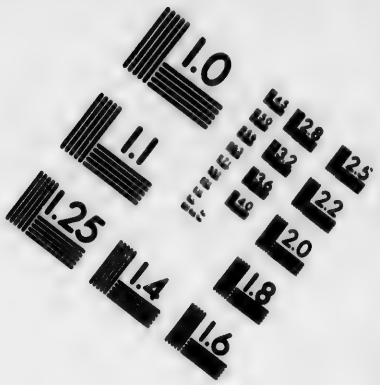


No. 12000

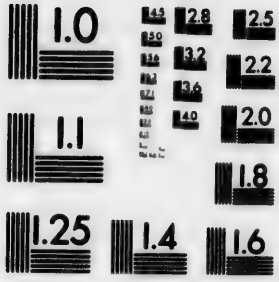
| Size | | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. **7000** | per doz. | .... | .... | .... | $7.50 | 11.25 | 14.65 | .... | 34.50 | 49.50 | 71.25 |
| " **10000** | " | .... | $5.25 | 6.00 | 7.90 | 12.00 | 15.75 | .... | .... | .... | .... |
| " **12000** | " | $5.40 | 6.00 | 7.15 | 8.65 | 13.50 | 18.00 | 28.50 | 41.25 | .... | .... |

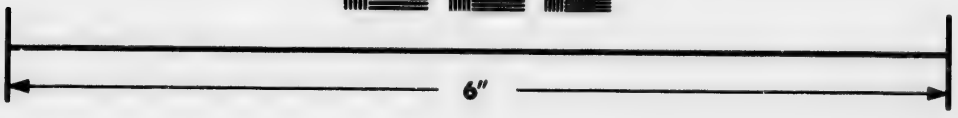
| Size | | | | | | | | | | 9 | 12 inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Marvel Waiters**, White Metal, Polished, Assorted Designs | | | | | | | | | per doz. | $1.15 | 1.90 |




# IMAGE EVALUATION TEST TARGET (MT-3)










Photographic Sciences Corporation

23 WEST MAIN STREET
WEBSTER, N.Y. 14580
(716) 872-4503

# BREAD BOARDS



No. 2686W

| | | | |
|---|---|---|---|
| Diameter | 11 | 12 | inch |
| No. 2686W—Turned Maple, Carved "Bread" and Tree Branches ..... per doz. | $3.75 | 4.90 | |

## WATER FILTERS AND COOLERS



CHEAVIN'S FILTER



SUCCESS FILTER



WATER COOLER

### CHEAVIN'S STONEWARE FILTERS

| Nos | B | C | D | E | |
|---|---|---|---|---|---|
| Size | 2 | 4 | 6 | 8 | gallons. |
| Each | $7.50 | 9.00 | 12.75 | 18.00 | |

### SUCCESS STONEWARE FILTERS

| | | |
|---|---|---|
| No. 1—Success Filters, Capacity 4 gallons, with one Block and Plated Faucet ..... each | $5.00 |
| Extra Blocks, for Success Filters, size 4 x 4 inch, with Drip Tube ..... " | 2.25 |

These Blocks are of natural Tripoli stone, hollowed out on inside, fitted with rubber gaskets in bottom. Any barrel, tub or other water-tight receptacle can be converted into a practical filter by simply punching a hole in the bottom and attaching this tube and Block. Capacity of each Block, dependent upon the amount of water kept over it, and the muddiness of water, is from four to sixteen gallons per day.

## WATER COOLERS

| | | | | | | |
|---|---|---|---|---|---|---|
| Size | 2 | 3 | 4 | 6 | 10 | gallons. |
| Japanned, Plated Faucets ..... each | $1.87 | 2.24 | 2.50 | 3.12 | 4.50 | |

# DRAM FLASKS



Style of Nos. 2672 to 4644



Style of Nos. 4599 to 2645

RICE LEWIS & SON LIMITED

## WITH DETACHABLE WHITE METAL CUP OVER SCREW CAP

| Size | | | ½ | ¾ | 1 | 1½ pints. |
|---|---|---|---|---|---|---|
| No. 2672—All White Metal | | each | $1.75 | 2.00 | 2.50 | 3.00 |
| " 4672— " " Electro-Plated | | " | 3.50 | 4.50 | 5.50 | 6.50 |
| " 3644—Glass, Imitation Morocco Leather Covered, Stitched, with Window | | " | 1.25 | 1.40 | 1.65 | 2.60 |
| " 4644— " Heavy Tan-Colored " " " " | | " | 1.80 | 2.10 | 2.25 | 3.85 |

## WITH DETACHABLE WHITE METAL CUP

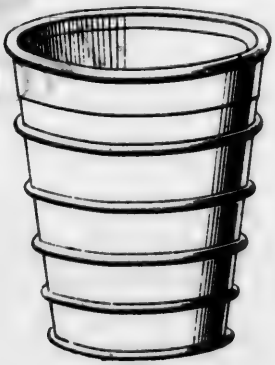
| Size | | ½ | ¾ | 1 | 1¼ | 1½ | 2 pints. |
|---|---|---|---|---|---|---|---|
| No. 4599—Glass, Imitation Leather Covered, not Stitched | each | $0.55 | 0.65 | 0.80 | .... | .... | .... |
| " 1645— " " Morocco Leather Covered, Stitched, with Window | " | 0.75 | 0.90 | 1.05 | 1.35 | 1.65 | 2.50 |
| " 2645— " Heavy Tan-Colored Leather Covered, Stitched, with Window | " | 1.25 | 1.50 | 1.65 | 1.90 | 2.20 | 3.00 |

## COLLAPSIBLE DRINKING CUPS

Full size cuts.



No. 69



No. 7965

| | | |
|---|---|---|
| No. 69—Watch Case Pattern, Nickel-Plated | each | $1.25 |
| " 7965—White Metal, Nickel-Plated | " | 0.60 |

# BIRD CAGES

## JAPANNED



**No. 016**
6½ x 8 inches.



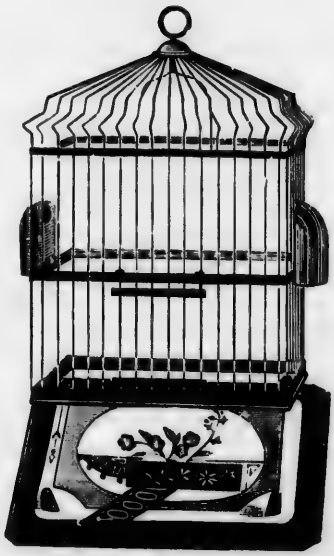
**No. 017**
7½ x 10 inches.



**No. 20**
7¾ x 7¾ inches.



**No. 76**
7¾ x 7¾ inches.



**No. 106**
9½ x 9½ inches.



**No. 26**
9 x 9 inches.

Complete, with Seed Cups, Swings and Perches.

Prices, see page 813.

# BIRD CAGES

## JAPANNED



**No. 77**
8¼ x 8¼ inches.



**No. 25**
8 x 8 inches.



**No. 020**
8¼ x 11¼ inches.



**No. 019**
8 x 10½ inches.



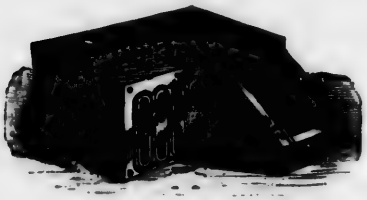
**No. 24**
8 x 8 inches.



**No. 78**
8¼ x 8½ inches.

**No. 30**—Case containing one dozen Japanned Cages, Assorted, Square and Oblong, Fancy Styles...per case $15.25
Half cases, half price. No charge for cases.

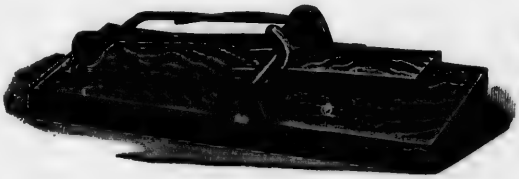
# MOUSE AND RAT TRAPS



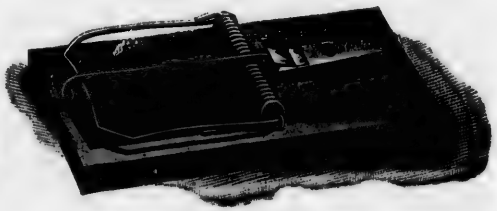
Delusion Mouse Traps, Self-Setting ..... per doz. $2.20




Snap-Shot Wood Mouse Traps, 4 Holes ..... per doz. 1.50

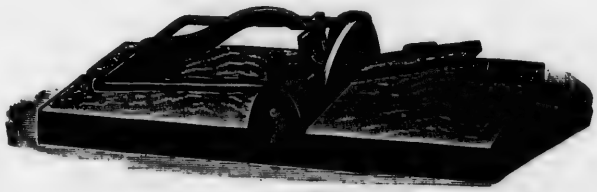


No. 20



OUT OF SIGHT

No. 20—Knock-Out Mouse Traps, Iron Cross-Bars riveted to Wooden Back ..... per doz. 0.90
" 1—Out of Sight Mouse Traps ..... " 1.50
" 2— " " Rat Traps ..... " 3.00



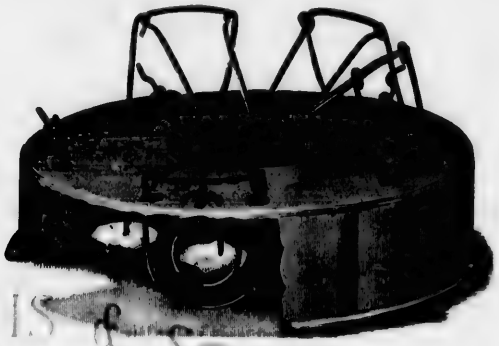
No. 500

No. 500—Knock-Out Rat Traps, Iron Cross-Bars riveted to Wooden Block ..... per doz. 2.30

# MOUSE AND RAT TRAPS



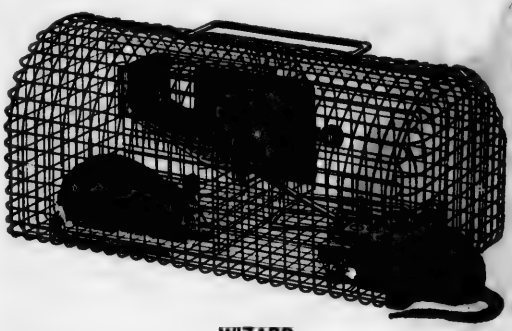
WOOD



METALLIC

RICE LEWIS & SON LIMITED

| | | |
|---|---|---|
| Circular Wood Mouse Traps, 4 Holes | per doz. | $1.10 |
| " " " " 5 " | " | 1.40 |
| " Metallic " " 5 " | " | 1.60 |



WIZARD



CAM LOCK

TORONTO, ONT.

| | | |
|---|---|---|
| Wizard, Wire Mouse Traps, Self-Setting, 7½ x 3½ inches | per doz. | 7.20 |
| Cam Lock, Wire Rat Traps, Re-tinned, 11 x 6 " | " | 6.50 |



YANKEE

| | | |
|---|---|---|
| Yankee, Wire Rat Traps, 18 x 8 inches | per doz. | 16.20 |

# HAIR CURLING IRONS



No. 3286



No. 3289

No. 3286-6—Bright, Varnished Handles, Diameter $\frac{1}{16}$ inch, Length 8 inches ..... per doz. $0.40
" 3286-8— " " " " $\frac{1}{8}$ " " 8 " ..... " 0.50
" 3289—Folding, Nickel-Plated, " $\frac{1}{16}$ " " 6$\frac{1}{2}$ " ..... " 1.05





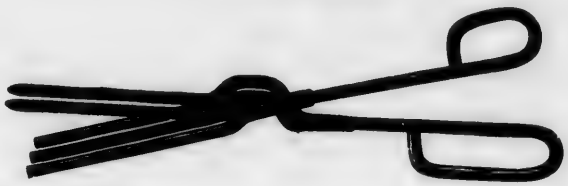


Duke, Polished Steel, Nickel-Plated, Antique Oak Handles, Diameter $\frac{1}{16}$ inch, Length 6 inches ..... per doz. 0.70
No. C— " " (not plated), Polished Wood " " $\frac{1}{16}$ " " 6 " ..... " 0.45
Little Princess, Polished Steel, Nickel-Plated, Antique Oak Handles, Diameter $\frac{1}{4}$ inch, Length 7$\frac{1}{2}$ in. " 0.85
No. B—Polished Steel (not plated), Polished Wood Handles, Diameter $\frac{1}{4}$ inch, Length 7$\frac{1}{2}$ inches ..... " 0.55




Princess, Polished Steel, Nickel-Plated, Antique Oak Handles, Diameter $\frac{1}{16}$ inch, Length 9$\frac{1}{2}$ inches.. per doz. 0.90
No. A— " " (not plated), Polished Wood " " $\frac{1}{16}$ " " 9$\frac{1}{2}$ " .. " 0.70

## WAVING IRONS



No. 5—Oriental Waving Irons, Length 10$\frac{1}{2}$ inches..... per doz. 2.65
" 10—Niagara " " " 10$\frac{1}{2}$ " ..... " 2.25



## LAMP HEATERS

### WITH CURLING TONG ATTACHMENT

Daisy, Wire, Coppered..... per doz. 1.20
Peerless, Polished Brass, Nickel-Plated ..... " 3.60

For Spirit Curling Tong Heaters, see page 806.

# TRACING WHEELS



No. 6165

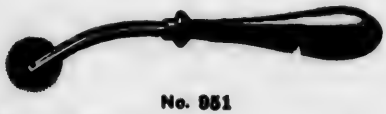


No. 6228

No. 6165—Bright Shank, Blued Wheel, Fine Teeth, Black Polished Handle ..... per doz. $1.35
" 950— " " " " " " " " " " ..... " 0.65
" 6228— " " " " Coarse Teeth, " " " ..... " 1.90



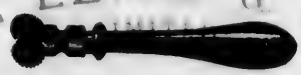
No. 6231



No. 951

No. 6231—Nickel-Plated Shank and Wheel, Fine Teeth, Black Polished Handle ..... per doz. 3.40
" 951—Bright Shank, Blued Wheel, Black Polished Handle ..... " 1.00

RICE LEWIS & SON

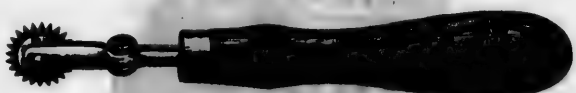


No. 6165

No. 6165—Black Wood Handle, Bright Steel Post ..... per doz. 1.80



No. 10—Hardwood Handle, Polished Steel Post, Fitted with Nickel-Plated Ferrule ..... per doz. 0.60



No. 15—Oak Handle, Nickel-Plated Steel Post, Fitted with Ebonized Finger Rest ..... per doz. 0.95



No. 25—Oak Handle, Nickel-Plated Steel Post, Fitted with Screw Clamp ..... per doz. 1.65

One dozen in a box.

## BUTTON HOLE PUNCHES



No. 924—Bright, Assorted Sizes ..... per doz. 2.50

One dozen in a box.

# PINKING IRONS



## DIAMOND TOOTH

| Size | ½ | ⅝ | ¾ | ⅞ | 1 | 1¼ | 1½ | 1¾ | 2 inch. |
|---|---|---|---|---|---|---|---|---|---|
| Diamond.....per doz. | .... | $1.15 | 1.15 | 1.15 | 1.15 | 2.65 | 2.65 | 3.00 | 3.75 |
| Scallop..... " | $1.15 | 1.15 | 1.15 | 1.15 | 1.15 | .... | .... | .... | .... |
| Straight..... " | ... | 1.15 | 1.15 | 1.15 | 1.15 | .... | .... | .... | .... |

One dozen in a box.

## MAT HOOKS



No. 7120



BENT SHANK

No. **7120**—Bright, Round, Straight Shank, Plain Handle .....per doz. $0.75
" **7122**— " " " " Handle as Cut of Bent Shank ..... ..... ..... " 1.75
" **1093**—Bright, Flat, Bent Shank, Handle as Cut of Bent Shank..... ..... ..... " 1.15

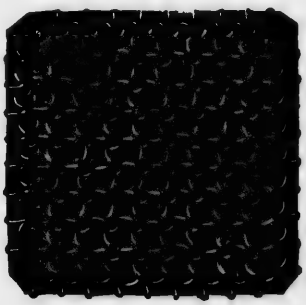
One dozen in a box.

## POT CLEANERS



SENSIBLE

## CHAIN BURNISHERS



Mounted on Best Buff Leather.

**Sensible**, with Scraper and Chain.....per doz. $1.35 | No. **1**—Single Link, 4 x 4 inch .....per doz. $4.00

## CHAMOIS SKINS

| Nos | B | D | E | F | G |
|---|---|---|---|---|---|
| Chamois Skins.....per doz. | $5.65 | 5.90 | 3.40 | 2.65 | 2.10 |

# LANTERNS

## TUBULAR



B, HINGED



B, DASH BOARD

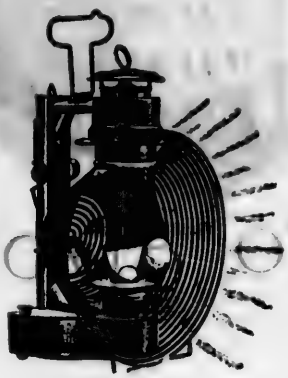


C, LIFT

| | | | | | | |
|---|---|---|---|---|---|---|
| No. | 1— | Wright's | B, | Hinged, | Plain | per doz. $5.85 |
| " | 2— | " | B, | " | Japanned | " 6.75 |
| " | 3— | " | B, | " | Dash Board, Japanned | " 9.90 |
| " | 4— | " | C, | Lift, | Plain | " 6.15 |
| " | 5— | " | C, | " | Japanned | " 7.05 |



COLD BLAST



SEARCHLIGHT



RAILROAD

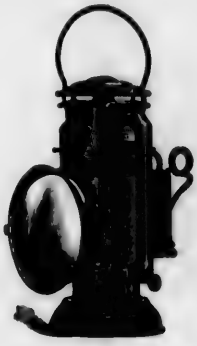
| | | | | | | |
|---|---|---|---|---|---|---|
| No. | 6— | Wright's | No. 2 | Cold Blast, | Plain | per doz. $11.25 |
| " | 7— | " | " 2 " | " | Japanned | " 12.15 |
| " | 8— | " | " 2 " | " | Plain, with Brass Bottom | " 13.50 |
| " | 17— | " | " 2 " | " | Dash Board, Japanned | " 16.15 |
| " | 20— | Searchlight, Japanned, Reflector 12 inches diam., 7 inches deep | | | | " 30.00 |
| " | 38— | Railroad Lantern, No. 1 Burner, Double Guard | | | | " 7.90 |
| " | 139— | " | " | No. 2 " | " " | " 8.65 |
| " | 49— | Conductors' Lantern, No. 1 Burner, all Brass, Double Guard | | | | " 39.00 |
| " | 50— | " | " | No. 1 " | " Nickel-Plated Double Guard | " 44.25 |

# LANTERNS

## HAM'S



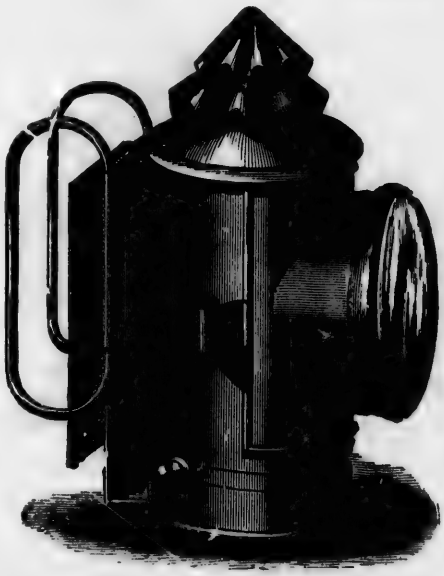

GEM



No. 18, DRIVING

| | | | |
|---|---|---|---|
| No. 00—Gem, Solid Brass, ½ inch Wick | per doz. | $13.50 |
| " 100— " " Nickel-Plated, ½ inch Wick | " | 17.65 |
| " 18— " Driving Lamp, Nickel-Plated on Brass, Copper Reflector, Silver-Plated, Bevel Plate Glass in Door, ½ inch Wick | " | 54.00 |

## POLICE DARK LANTERNS



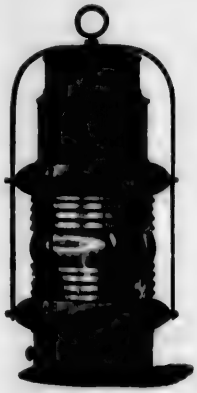
Nos. 1 and 2



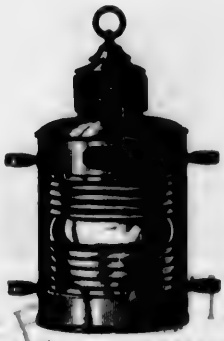
No. 33

| | | |
|---|---|---|
| No. 11—2½ inch Lens, Height 7 inches, Japanned | per doz. | 8.10 |
| " 22—3 " " " 8 " " | " | 9.75 |
| " 33—Metropolitan Police Pattern, Heavy 3 inch Lens, Special Quality | " | 18.00 |

# SHIP LANTERNS



ANCHOR LIGHT



MAST HEADS



No. 3, SIGNAL LIGHT



SKIFF LAMP

| | | | | | | |
|---|---|---|---|---|---|---|
| Lens | | 4 | 5 | 6 | 8 | inch. |
| Anchor Lights, Tin | each | $ 7.50 | .... | 10.50 | 15.00 | |
| " " Copper | " | 12.00 | .... | 18.00 | 22.50 | |
| Mast Heads, Tin | " | 7.50 | .... | 10.50 | 15.00 | |
| " " Copper | " | 12.00 | .... | 18.00 | 22.50 | |
| No. 3—Signal Lights, Tin | per pair | 5.25 | 6.00 | 7.50 | .... | |
| Skiff Lamps, colors Red and Green | each | 1.90 | | | | |

## SAFETY CANDLE LANTERNS



No. 2
With Lamp Chimney.



No. 2
With Lantern Globe.

| | | |
|---|---|---|
| No. 2—Safety Candle Lantern, for Lamp Chimney | without Chimney, per doz. | $1.75 |
| " 3— " " " Lantern Globe | " Globe, " | 1.90 |

# LAMP AND LANTERN BURNERS



### LAMP BURNERS

| No. | | A | B |
|---|---|---|---|
| Burner | per doz. | $1.05 | 1.45 |

### LANTERN BURNERS

| No. | 0 | 39 | 2OB |
|---|---|---|---|
| Per dozen | $1.15 | 1.15 | 2.25 |

### LAMP WICK

| No. | O | A | B | D |
|---|---|---|---|---|
| Per gross | $0.50 | 0.70 | 1.00 | 1.60 |

| No. | 1 | 2 |
|---|---|---|
| Rochester, per gross | $6.65 | 8.35 |

### OIL STOVE WICK

| Size | 4 | 4½ | 5 inch. |
|---|---|---|---|
| Per Gross | $5.65 | 6.25 | 6.90 |

## LANTERN GLOBES AND LAMP CHIMNEYS



LANTERN GLOBE



RAILROAD GLOBE



LAMP CHIMNEY

### LANTERN GLOBES

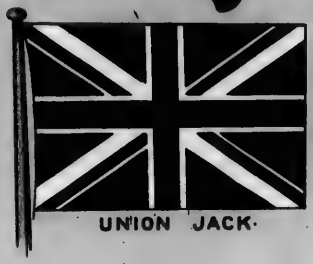
| Quantity in a Case | 1 | 3 | 6 dos. |
|---|---|---|---|
| Plain White, per doz. | $0.85 | 0.75 | 0.70 |
| Ruby, " | 3.75 | 4.15 | .... |
| Green, " | 3.40 | .... | .... |
| No. 2 Cold Blast, " | 1.10 | 1.00 | .... |
| " 66—Gem, " | 1.10 | .... | .... |
| Railroad, " | 1.30 | .... | .... |

### LAMP CHIMNEYS

| No. | 0 | 1 | 2 |
|---|---|---|---|
| For Burners, Nos. | O or E | 1 or A | 2 or B |
| Diameter at Bottom | 2 | 2½ | 3 inch. |
| Dominion Best Lead, per doz. | $0.51 | 0.53 | 0.75 |
| Crown Fine Flint, " | 0.39 | 0.40 | 0.58 |
| Second Quality, " | 0.39 | 0.40 | 0.58 |

Lamp Chimneys, Nos. 0 and 2, 6 doz. in a case; No. 1, 8 doz. Cases Extra, for Nos. 0, $0.25, 1 and 2 $0.40 each, net.

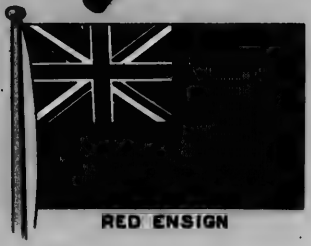
# FLAGS



UNION JACK.



ROYAL STANDARD



RED ENSIGN

## RICE LEWIS & SON

(LIMITED.)

Nº 30-34

KING ST EAST,

TORONTO,

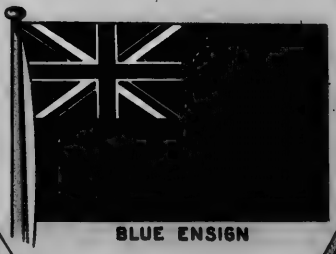
CANADA.



CANADIAN



AMERICAN



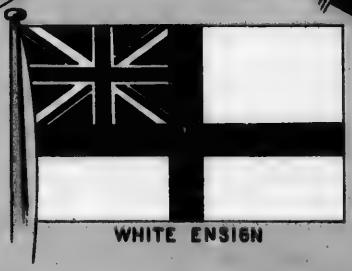
BLUE ENSIGN



SCOTTISH STANDARD



IRISH STANDARD



WHITE ENSIGN

# BUNTING FLAGS

Made of Best Quality Bunting.

## RED, WHITE, OR BLUE ENSIGNS

| Size, Length... | 1 | 1½ | 2 | 2½ | 3 | 3½ | 4 | 4½ | 5 | 6 | 7 | 8 yards. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Each..... | $1.90 | 2.80 | 3.75 | 4.60 | 6.60 | 8.00 | 9.25 | 10.75 | 14.75 | 20.00 | 26.50 | 33.00 |

## DOMINION ENSIGNS

| Size, Length ..... | | | 2 | 2½ | 3 | 4 | 5 | 6 | 7 | 8 yards. |
|---|---|---|---|---|---|---|---|---|---|---|
| Red Dominion..... .....each | | | $5.50 | 8.00 | 9.50 | 13.50 | 18.50 | 23.00 | 33.00 | 38.00 |
| Blue " ..... " | | | .... | .... | 9.50 | 13.50 | 18.50 | 23.00 | 33.00 | ..... |

## UNION JACKS

| Size, Length ..... | 1 | 1½ | 2 | 2½ | 3 | 3½ | 4 | 4½ | 5 yards. |
|---|---|---|---|---|---|---|---|---|---|
| Each..... | $2.00 | 3.25 | 4.50 | 6.25 | 7.75 | 9.75 | 13.25 | 16.50 | 20.00 |

## SCOTCH STANDARDS

| Size, Length ..... | 3 | 4 | 5 yards. |
|---|---|---|---|
| Each ..... | $18.50 | 23.50 | 31.00 |

## AMERICAN ENSIGNS

| Size, Length..... | 2 | 2½ | 3 | 4 | 5 yards. |
|---|---|---|---|---|---|
| Each..... | $4.50 | 6.25 | 7.75 | 13.25 | 20.00 |

## COTTON FLAGS

Fast Colors, Hemmed Edges, Heavy Material.

| Size..... | 15x12 | 17x15 | 27x22 | 30x20 | 30x24 | 34x22 | 35x31 | 40x35 | 48x72 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|
| Union Jacks.....per doz. | $0.75 | 1.15 | 1.90 | .... | 2.65 | .... | 4.00 | 5.00 | 12.00 | |
| Red Ensigns..... " | 0.75 | 1.15 | 1.90 | .... | 2.65 | .... | .... | .... | 12.00 | |
| White " ..... " | 0.75 | .... | .... | .... | 2.65 | .... | .... | .... | .... | |
| Blue " ..... " | .... | .... | .... | .... | 2.65 | .... | .... | .... | .... | |
| Canadian Ensigns ..... " | .... | .... | .... | .... | .... | 3.50 | .... | .... | .... | |
| American " ..... " | .... | .... | .... | 2.50 | .... | .... | .... | .... | .... | |
| Belgian, French, German, Italian, Netherland, Russian, 27 x 22 inch..... per doz. | | | | | | | | | | $3.00 |
| Scotch, Irish and Royal Standards, 27 x 22 inch..... " | | | | | | | | | | 1.90 |
| " " " " 30 x 24 " ..... " | | | | | | | | | | 2.65 |

## SILK FLAGS

| Length ..... | 18 | 36 inch. |
|---|---|---|
| Red Ensigns ..... per doz. | $9.00 | 30.00 |
| Canadian Ensigns..... " | 9.00 | 30.00 |

National Flags can be supplied at about above prices.

## BUNTINGS

| 18 inches wide ..... | RED | BLUE | WHITE |
|---|---|---|---|
| Per piece of 40 yards ..... | $14.00 | 14.00 | 13.00 |

## FLAG POLE HOLDERS



No. 97




No. 98

| Diameter of Pole..... | ¼ | ⅜ | ½ | ⅝ | ¾ | 1 | 1¼ | 1½ | 2 inch. |
|---|---|---|---|---|---|---|---|---|---|
| No. 97.....per doz. | $0.90 | 1.20 | 1.50 | 1.80 | 2.50 | .... | .... | .... | .... |
| " 98—Tinned ..... " | .... | .... | .... | .... | .... | 5.00 | 6.50 | 8.00 | 16.00 |

## FLAG POLES

Turned, with Pointed Ends, Saw-cut half length for inserting Flag.

| Size..... | 3 ft. x ½ in. | 4 ft. x ⅝ in. | 6 ft. x ¾ in. |
|---|---|---|---|
| Per dozen..... | $0.45 | 0.70 | 1.00 |

RICE LEWIS & SON TORONTO, ONT.

# HENRY BOKER & CO.'S

TRADE MARK

## TREE BRAND POCKET CUTLERY

H. BOKER & CO.'S productions are of the very highest quality, are made from the best English crucible cast steel, hardened and tempered by experienced workmen, and sent out ready for use. Care should be used in whetting a pocket knife, the blade being held at an angle of twenty degrees, and not laid flat on the stone like a razor. The joints should be kept oiled, or will wear rough and the blade points protrude.

### TWO-BLADE PENKNIVES

Full size cuts.



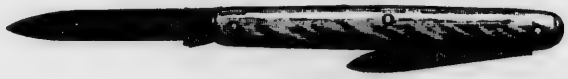
No. 8257

No. 8257—Ivory Handle, 2 Blades, Brass Lined ..... per doz. $4.05
" 8258—Pearl " 2 " " ..... " 7.00



No. 8577

No. 8577—Ivory Handle, 2 Blades, Brass Lined, German Silver Bolsters ..... per doz. 4.80



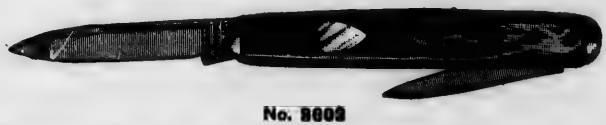
No. 8618

No. 8617—Ivory Handle, 2 Blades, Brass Lined, German Silver Bolsters ..... per doz. 5.80
" 8618—Pearl " 2 " " " " ..... " 9.00



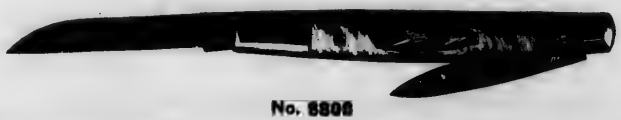
No. 8598

No. 8596—Ivory Celluloid Handle, 2 Blades, Brass Lined, German Silver Bolsters ..... per doz. 5.10
" 8598—Pearl Handle, 2 Blades, Brass Lined, German Silver Bolsters ..... " 6.80



No. 8602

No. 8602—Grey Buff Handle, 2 Blades, Brass Lined, German Silver Bolsters ..... per doz. 5.55



No. 8606

No. 8606—Pearl Handle, 2 Blades, Brass Lined, German Silver Bolsters ..... per doz. 6.80

# BOKER'S POCKET KNIVES

**Full size cuts.**



**No. 8318**

**No. 8318**—Pearl Handle, 2 Blades, Brass Lined, German Silver Bolsters ..... per doz. $6.60



**No. 8327**

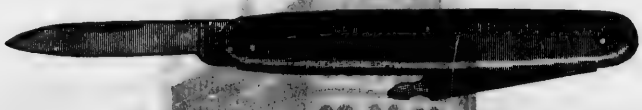
**No. 8327**—Ivory Handle, 2 Blades, Brass Lined, German Silver Bolsters ..... per doz. 4.85
" **8328**—Pearl " 2 " " " " ..... " 6.25

RICE LEWIS & SON
LIMITED



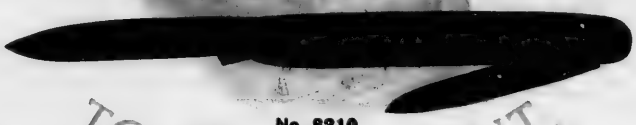
**No. 8338**

**No. 8338**—Pearl Handle, 2 Blades, Brass Lined, German Silver Bolsters ..... per doz. 7.70



**No. 8326½**

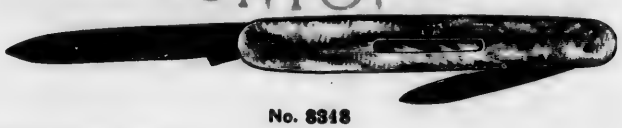
**No. 8326½**—Ivory Celluloid Handle, 2 Blades, Brass Lined ..... per doz. 5.25



**No. 8310**

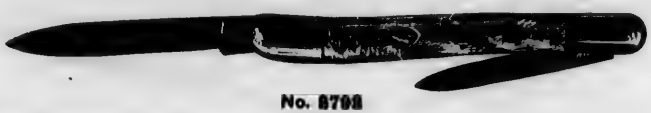
**No. 8310**—German Silver Handle, 2 Blades ..... per doz. 4.20

TORONTO, ONT.



**No. 8348**

**No. 8347**—Ivory Handle, 2 Blades, Brass Lined ..... per doz. 5.30
" **8348**—Pearl " 2 " " ..... " 9.10

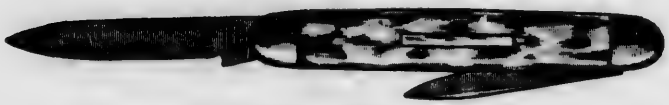


**No. 8798**

**No. 8798**—Pearl Handle, 2 Blades, Brass Lined, German Silver Bolsters ..... per doz. 6.50

# BOKER'S POCKET KNIVES

**Full size cuts.**



**No. 8638**

| | | |
|---|---|---|
| No. **8637**—Ivory Handle, 2 Blades, Brass Lined, German Silver Bolsters ..... | per dos. | $6.10 |
| " **8638**—Pearl " 2 " " " " " ..... ..... | " | 8.30 |



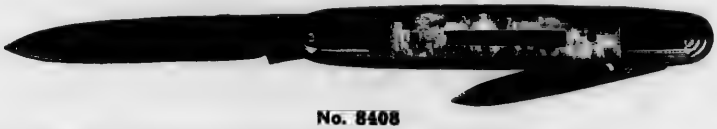
**No. 8788**

| | | |
|---|---|---|
| No. **8788**—Pearl Handle, 2 Blades, Brass Lined, German Silver Bolsters ..... ..... | per doz. | 9.85 |



**No. 8238**

| | | |
|---|---|---|
| No. **8238**—Pearl Handle, 2 Blades, Brass Lined..... ..... | per doz. | 11.35 |



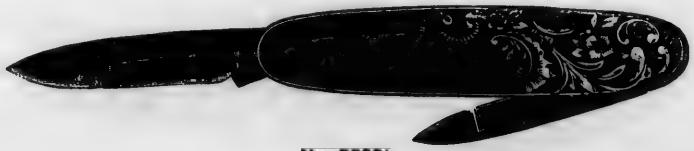
**No. 8408**

| | | |
|---|---|---|
| No. **8402**—Black Buff Handle, 2 Blades, Brass Lined, German Silver Bolsters ..... | per doz. | 6.60 |
| " **8405**—White Bone " 2 " " " " ..... | " | 6.60 |
| " **8408**—Pearl " 2 " " " " ..... | " | 10.35 |



**No. 8690**

| | | |
|---|---|---|
| No. **8690**—Aluminum Handle, 2 Blades, the reverse side of handle same pattern as No. 8690½..... | per doz. | 5.90 |

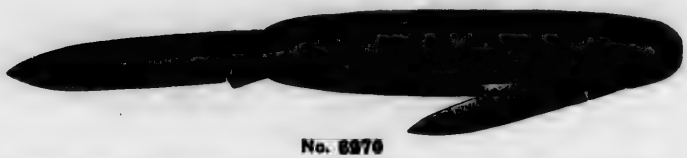


**No. 8690½**

| | | |
|---|---|---|
| No. **8690½**—Aluminum Handle, 2 Blades, the reverse side of handle same pattern as No. 8690.. ..... | per doz. | 6.10 |

# BOKER'S POCKET KNIVES

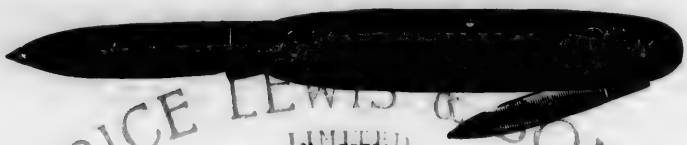
**Full size cuts.**



**No. 8270**

$6.10
8.90

**No. 8270**—Light Bronze Handle, 2 Blades, the reverse side of Handle same pattern as No. 8270½ ....per doz. $5.75



**No. 8270½**

9 85

**No. 8270½**—Light Bronze Handle, 2 Blades, the reverse side of Handle same pattern as No. 8270 ....per doz. 5.90



**No. 8280**

11.35

**No. 8280**—Blue Bronze Handle, 2 Blades, the reverse side of Handle same pattern as No. 8280½ .....per doz. 5.75



**No. 8280½**

6.60
6.60
10.35

**No. 8280½**—Blue Bronze Handle, 2 Blades, the reverse side of Handle same pattern as No. 8280 .....per doz. 5 90



**No. 8696**

5.90

**No. 8696**—Ivory Celluloid Handle, 2 Blades, Brass Lined ..... ..... per doz. 5.30



**No. 8650**

6.10

**No. 8650**—German Silver Handle, 2 Blades..... .....per doz. 5.90

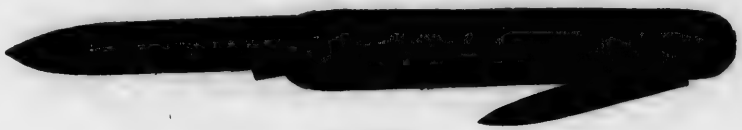
# BOKER'S POCKET KNIVES

**Full size cuts.**



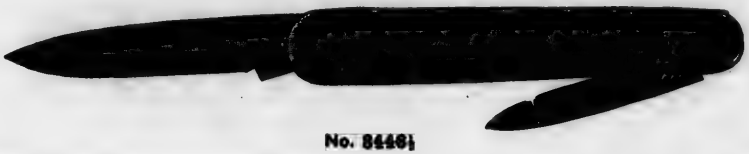
**No. 8714**

**No. 8714**—Stag Handle, 2 Blades, Brass Lined, German Silver Bolsters.....per doz. $6.00



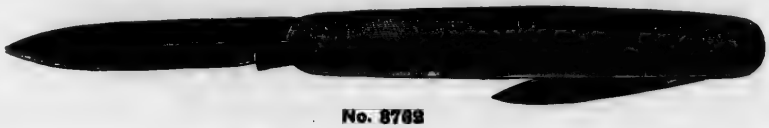
**No. 8442**

**No. 8442**—Black Buff Handle, 2 Blades, Brass Lined.....per doz. 4.00
" **8445**—White Bone Handle, 2 " " ..... " 4.00



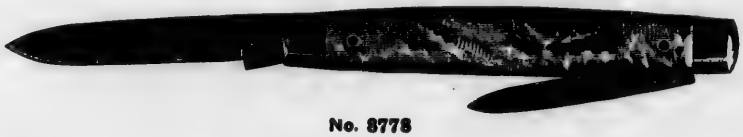
**No. 8446½**

**No. 8446½**—Ivory Celluloid Handle, 2 Blades, Brass Lined .....per doz. 4.55



**No. 8762**

**No. 8762**—Black Buff Handle, 2 Blades, Brass Lined.....per doz. 4.50



**No. 8778**

**No. 8772**—Black Buff Handle, 2 Blades, Brass Lined, German Silver Bolsters .....per doz. 6.25
" **8777**—Ivory Handle, 2 " " " " ..... " 6.60
" **8778**—Pearl " 2 " " " " ..... " 11.90

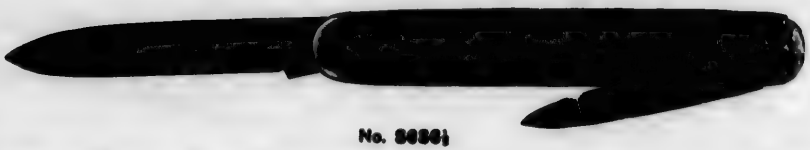


**No. 8686**

**No. 8683**—Grey Buff Handle, 2 Blades, Brass Lined.....per doz. 4.30
" **8686**—Ivory Celluloid " 2 " " ..... " 4.30

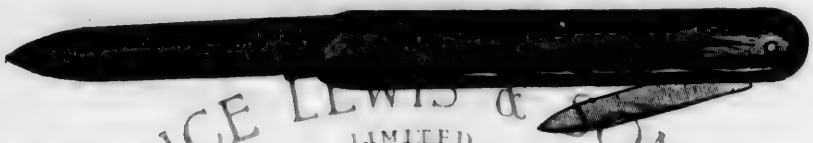
# BOKER'S POCKET KNIVES

**Full size cuts.**



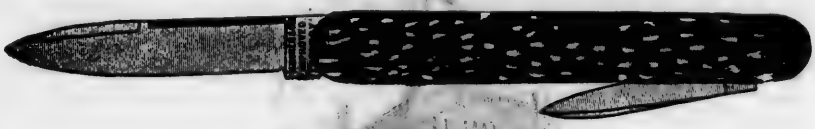
**No. 8686½**

$6.00 — No. **8686½**—Grey Buff Handle, 2 Blades, Brass Lined ..... per doz. $4.50
" **8686½**—Ivory Celluloid " 2 " " ..... " 4.50



**No. 8452**

4.00 — No. **8452**—Black Buff Handle, 2 Blades, Brass Lined ..... per doz. 4.50
4.00 — " **8455**—White Bone " 2 " " ..... " 4.50



**No. 8454**

4.55 — No. **8454**—Stag Handle, 2 Blades, Brass Lined ..... per doz. 4.30



**No. 8968**

4.50 — No. **8968**—Pearl Handle, 2 Blades, German Silver Lined, Special Fine Finish ..... per doz. 17.40



**No. 8706**

6.25 — No. **8706**—Ivory Celluloid Handle, 2 Blades, Brass Lined ..... per doz. 5.90
6.60
11.90

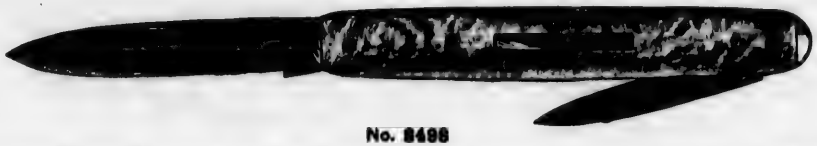


**No. 8495**

4.30 — No. **8492**—Black Buff Handle, 2 Blades, Brass Lined, German Silver Bolsters ..... per doz. 6.20
4.30 — " **8494**—Stag " 2 " " " " ..... " 6.20
" **8495**—White Bone " 2 " " " " ..... " 6.20

# BOKER'S POCKET KNIVES

**Full size cuts.**



**No. 8498**

No. **8498**—Pearl Handle, 2 Blades, Brass Lined, German Silver Bolsters.....per doz. $12.85



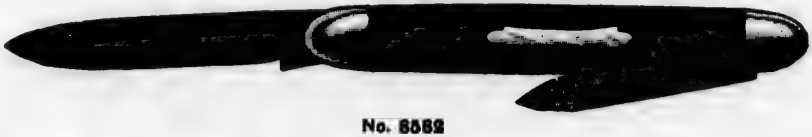
**No. 8722**

No. **8722**—Black Buff Handle, 2 Blades, Brass Lined, German Silver Bolsters .....per doz. 5.30



**No. 8584**

No. **8584**—Stag Handle, 2 Blades, Brass Lined, German Silver Bolsters.....per doz. 5.65



**No. 8582**

No. **8582**—Black Buff Handle, 2 Blades, Brass Lined, German Silver Bolsters .....per doz. 5.80
" **8585**—White Bone " 2 " " " " ..... " 5.80



**No. 8662**

No. **8662**—Black Buff Handle, 2 Blades, Brass Lined.....per doz. 5.90



**No. 8648**

No. **8642**—Black Buff Handle, 2 Blades, Brass Lined, German Silver Bolsters .....per doz. 7.60
" **8645**—White Bone " 2 " " " " ..... " 7.60
" **8648**—Pearl " 2 " " " " ..... " 12.25

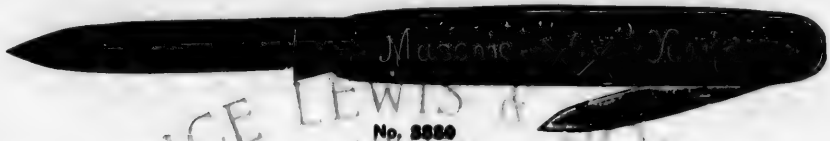
# BOKER'S POCKET KNIVES

**Full size cuts.**



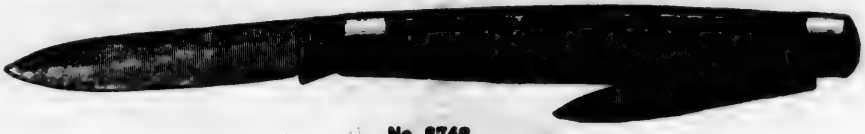
**No. 8644**

$12.85 — **No. 8644**—Stag Handle, 2 Blades, Brass Lined, German Silver Bolsters ..... per doz. $6.50



**No. 8880**

5.30 — **No. 8880**—Aluminum Handle, 2 Blades ..... per doz. 6.25



**No. 8742**

5.65 — **No. 8742**—Black Buff Handle, 2 Blades, Brass Lined, German Silver Bolsters ..... per doz. 6.45

" **8747**—Ivory Handle, 2 " " " " ..... " 7.40



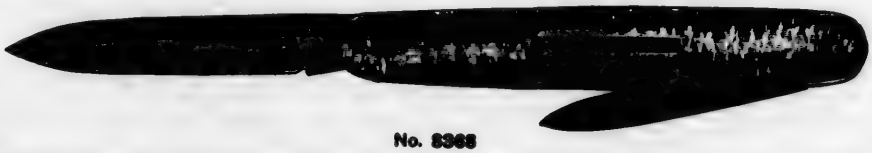
**No. 8848**

5.80
5.80 — **No. 8848**—Pearl Handle, 2 Blades, Brass Lined, German Silver Bolsters ..... per doz. 9.40



**No. 8358**

5.90 — **No. 8358**—Pearl Handle, 2 Blades, Brass Lined, German Silver Bolsters ..... per doz. 11.15

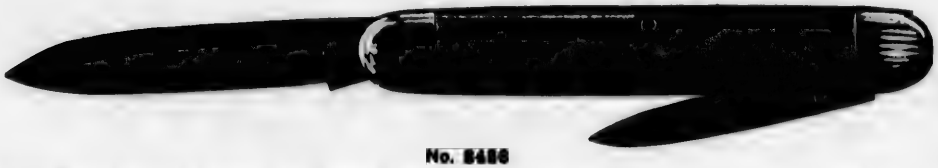


**No. 8368**

7.60
7.60
12.25 — **No. 8368**—Pearl Handle, 2 Blades, German Silver Lined, Special Fine Finish ..... per doz. 19.85

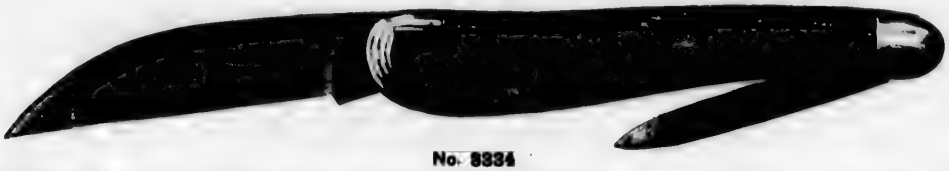
# BOKER'S POCKET KNIVES

**Full size cuts.**



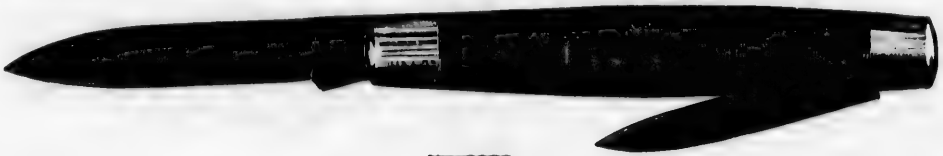
**No. 8484**

No. **8484**—Stag Handle, 2 Blades, Brass Lined, German Silver Bolsters.....per doz. $7.50
" **8486**—Ivory Celluloid Handle, 2 Blades, Brass Lined, German Silver Bolsters..... " 8.40



**No. 8334**

No. **8334**—Stag Handle, 2 Blades, Brass Lined, German Silver Bolsters.....per doz. 7.70



**No. 8376**

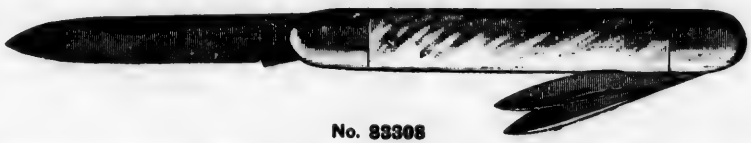
No. **8376**—Ivory Celluloid Handle, 2 Blades, Brass Lined, German Silver Bolsters.....per doz. 8.25

## THREE-BLADE PENKNIVES



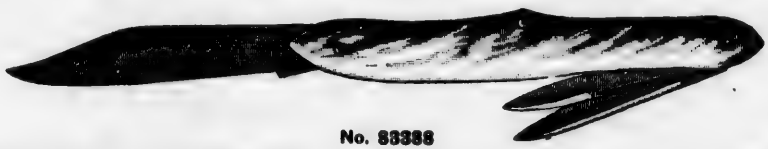
**No. 83438**

No. **83438**—Pearl Handle, 3 Blades, Brass Lined, German Silver Bolsters .....per doz. 13.95



**No. 83308**

No. **83308**—Pearl Handle, 3 Blades, Brass Lined, German Silver Bolsters .....per doz. 10.90



**No. 83388**

No. **83388**—Pearl Handle, 3 Blades, Brass Lined..... per doz. 18.30

# BOKER'S POCKET KNIVES

Full size cuts.



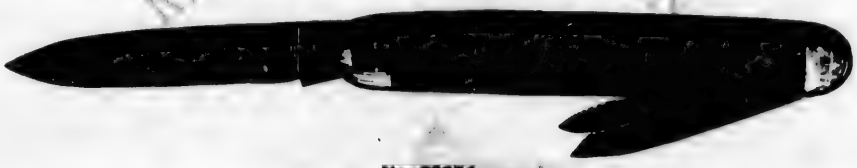
No. 83898

No. **83898**—Pearl Handle, 3 Blades, Brass Lined, German Silver Bolsters.....per doz. $14.40



No. 83582

No. **83582**—Black Buff Handle, 3 Blades, Brass Lined, German Silver Bolsters.....per doz. 7.95



No. 83854

No. **83854**—Stag Handle, 3 Blades, Brass Lined, German Silver Bolsters.....per doz. 7.85



No. 83858

No. **83858**—Pearl Handle, 3 Blades, Brass Lined, German Silver Bolsters.....per doz. 10.35



No. 83880

No. **83880**—Aluminum Handle, 3 Blades.....per doz. 8.65

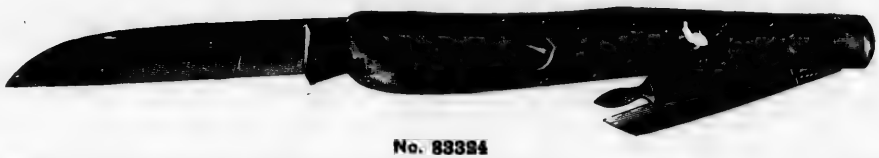


No. 83867

No. **83867**—Ivory Handle, 3 Blades, Brass Lined, German Silver Bolsters.....per doz. 10.45

# BOKER'S POCKET KNIVES

Full size cuts.



No. 83324

No. **83324**—Stag Handle, 3 Blades, Brass Lined, German Silver Bolsters.....per doz. $10.80



No. 83328

No. **83328**—Pearl Handle, 3 Blades, Brass Lined, German Silver Bolsters.....per doz. 17.85



No. 83738

No. **83738**—Pearl Handle, 3 Blades, Brass Lined, German Silver Bolsters.....per doz. 10.40



No. 83334

No. **83334**—Stag Handle, 3 Blades, Brass Lined, German Silver Bolsters.....per doz. 9.55



No. 83874

No. **83874**—Stag Handle, 3 Blades, Brass Lined, German Silver Bolsters.....per doz. 11.60
" **83877**—Ivory " 3 " " " " " " " " 15.55

# BOKER'S POCKET KNIVES

Full size cuts.




**No. 83396**

No. **83396**—Ivory Celluloid Handle, 3 Blades, Brass Lined, German Silver Bolsters.....per doz. $14.65

RICE LEWIS & SON

## FOUR-BLADE PENKNIVES



**No. 84598**

No. **84597**—Ivory Handle, 4 Blades, Brass Lined, German Silver Bolsters.....per doz. 8.30
" **84598**—Pearl " 4 " " " " " " " " " " 9.85



**No. 84293**

No. **84293**—Grey Buff Handle, 4 Blades, Brass Lined, German Silver Bolsters.....per doz. 10.45



**No. 84940**

No. **84940** —German Silver Handle, 4 Blades.....per doz. 13.95
" **84940B**—Brown Bronze " 4 " " " " " " " " " " 12.70



**No. 84988**

No. **84988**—Pearl Handle, 4 Blades, German Silver Lined, Special Fine Finish.....per doz. 23.00

# BOKER'S POCKET KNIVES

**Full size cuts.**



**No. 84493**

No. **84493**—Grey Buff Handle, 4 Blades, Brass Lined, German Silver Bolsters.....per doz. $10.10



**No. 84498**

No. **84498**—Pearl Handle, 4 Blades, Brass Lined, German Silver Bolsters.....per doz. 18.50



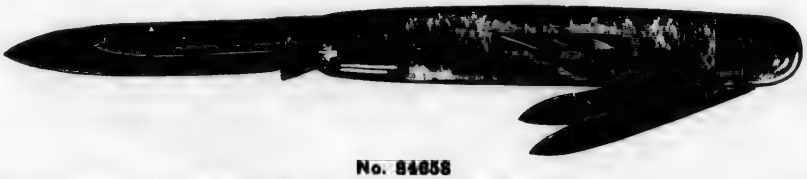
**No. 84868**

No. **84867**—Ivory Handle, 4 Blades, Brass Lined, German Silver Bolsters.....per doz. 10.35
" **84868**—Pearl " 4 " " " " " " ..... " 14.90



**No. 84582**

No. **84582**—Black Buff Handle, 4 Blades, Brass Lined, German Silver Bolsters.....per doz. 8.30



**No. 84658**

No. **84652**—Black Buff Handle, 4 Blades, Brass Lined, German Silver Bolsters.....per doz. 9.55
" **84658**—Pearl " 4 " " " " " " ..... " 14.90

# BOKER'S POCKET KNIVES

Full size cuts.



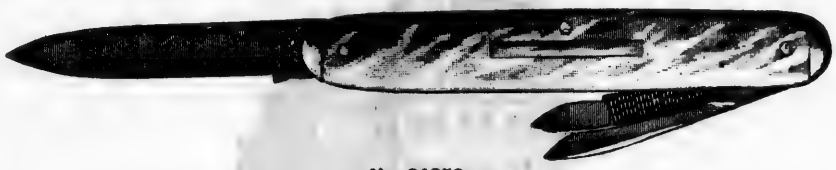
No. 84848

No. **84848**—Pearl Handle, 4 Blades, Brass Lined, German Silver Bolsters ..... per doz. **$11.80**



No. 84844

No. **84844**—Stag Handle, 4 Blades, Brass Lined, German Silver Bolsters ..... per doz. **9.65**



No. 84858

No. **84857**—Ivory Handle, 4 Blades, Brass Lined, German Silver Bolsters ..... per doz. **11.80**
" **84858**—Pearl " 4 " " " " ..... " **22.50**



No. 84953

No. **84953**—Pearl Handle, 4 Blades, Brass Lined, German Silver Bolsters ..... per doz. **16.65**



No. 84917

No. **84914**—Stag Handle 4 Blades, Brass Lined, German Silver Bolsters ..... per doz. **11.90**
" **84917**—Ivory " 4 " " " " ..... " **11.90**

# BOKER'S POCKET KNIVES

**Full size cuts.**



**No. 85527**

**No. 85527**—Ivory Handle, 2 Blades and Scissors, Brass Lined ..... per doz. $13.30



**No. 85538**

**No. 85538**—Pearl Handle, Two Blades and Scissors, German Silver Lined, Special Fine Finish..... per doz. 25.70



**No. 85548**

**No. 85548**—Pearl Handle, Two Blades, Nail File, Scissors and Picker, German Silver Lined, Special Fine Finish ..... per doz. 43.30



**No. 85558**

**No. 85557**—Ivory Handle, 2 Blades and Scissors, Brass Lined, German Silver Bolsters..... per doz. 15.45
" **85558**—Pearl " 2 " " " " " " " " ..... " 19.75



**No. 85568**

**No. 85568**—Pearl Handle, 3 Blades, Nail File and Scissors, Brass Lined..... per doz. 69.10

per doz. $13.30

per doz. 25.70

Special
per doz. 43.30

doz. 15.45
" 19.75

doz. 69.10

# BOKER'S POCKET KNIVES

Full size cuts.



Nos. 85588 85578 85593 85607 85617 and 85618

No. **85588**—Pearl Handle, 4 Blades, Picker, Nail File and Scissors, German Silver Lined, Special Fine Finish ..... per doz. $51.75

" **85578**—Pearl Handle, 2 Blades, Button Hook, Nail File, Cork Screw and Scissors, Brass Lined, German Silver Bolsters ..... per doz. 49.00

" **85593**—Grey Buff Handle, 2 Blades and Cork Screw, Brass Lined ..... " 10.15

" **85607**—Ivory Handle, 3 Blades, Button Hook, Cork Screw and Nail File, Brass Lined ..... " 25.25

" **85617**—" " 2 " Wire Cutter and Cork Screw, Brass Lined, G. S. Bolsters ..... " 20.70

" **85618**—Pearl " 2 " " " " " ..... " 26.45

# BOKER'S POCKET KNIVES

Full size cuts.

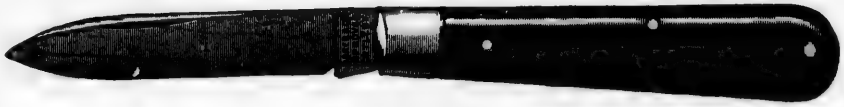


Nos. **85644** **85627** and **85628** **85633** **85500**

| | | | |
|---|---|---|---|
| No. **85644**—Stag Handle, 4 Blades, Saw and Cork Screw, Brass Lined, G. S. Bolsters ..... | per doz. | $38.00 |
| " **85627**—Ivory " 2 " Wire Cutter and Cork Screw, Brass Lined, G. S. Bolsters ..... | " | 31.60 |
| " **85628**—Pearl " 2 " " " " " " " ..... | " | 39.90 |
| " **85633**—Grey Buff Handle, 4 Blades, Saw Blade and Cork Screw, Brass Lined, G. S. Bolsters .. | " | 28.15 |
| " **85500**—German Silver Handle, 2 Blades, Wire Cutter and Cork Screw ..... | " | 11.25 |

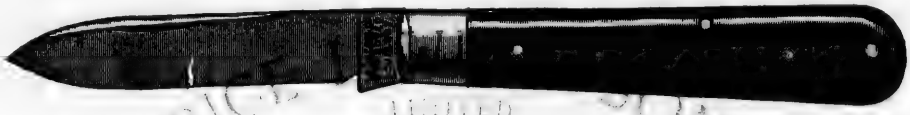
# BOKER'S POCKET KNIVES

**Full size cuts.**



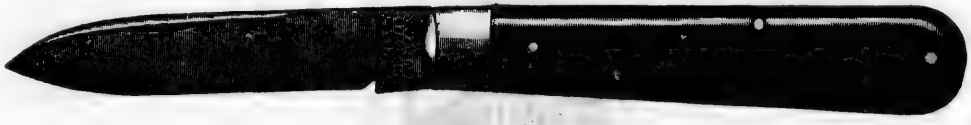
**No. 81002**

No. **81002**—Ebony Handle, 1 Blade, Iron Lined and Bolster ..... per doz. $3.85



**No. 81012**

No. **81012**—Ebony Handle, 1 Blade, Iron Lined and Bolster ..... per doz. 4.10



**No. 81022**

No. **81022**—Ebony Handle, 1 Blade, Iron Lined and Bolster ..... per doz. 4.85



**No. 81032**

No. **81032**—Ebony Handle, 1 Blade, Iron Lined and Bolster ..... per doz. 5.55



**No. 81812**

No. **81812**—Ebony Handle, 1 Blade, Iron Lined and Bolster ..... per doz. 3.95



**No. 81832**

No. **81832**—Ebony Handle, 1 Blade, Iron Lined and Bolster ..... per doz. 4.25

# BOKER'S POCKET KNIVES

Full size cuts.



**No. 81842**

No. **81842**—Ebony Handle, 1 Blade, Iron Lined and Bolster.....per doz. $5.20



**No. 81852**

No. **81852**—Ebony Handle, 1 Blade, Iron Lined and Bolster.....per doz. 5.80



**No. 81502**

No. **81502**—Ebony Handle, 1 Strong Bevelled Blade, Iron Lined and Bolster .....per doz. 6.25



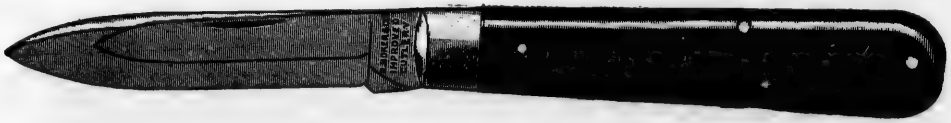
**No. 82002**

No. **82002**—Ebony Handle, 2 Blades, Iron Lined and Bolster.....per doz. 5.00



**No. 82012**

No. **82012**—Ebony Handle, 2 Blades, Iron Lined and Bolster..... .....per doz. 5.35

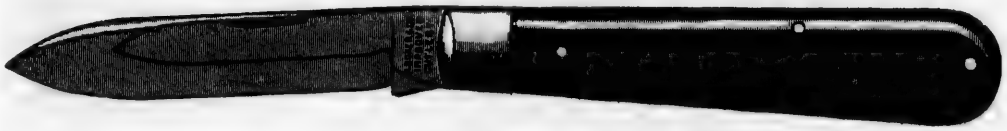


**No. 82022**

No. **82022**—Ebony Handle, 2 Blades, Iron Lined and Bolster .....per doz. 6.25

# BOKER'S POCKET KNIVES

Full size cuts.



No. 82032

No. **82032**—Ebony Handle, 2 Blades, Iron Lined and Bolster ..... per doz. $7.15



No. 82812

No. **82812**—Ebony Handle, 2 Blades, Iron Lined and Bolster ..... per doz. 5.00



No. 82832

No. **82832**—Ebony Handle, 2 Blades, Iron Lined and Bolster ..... per doz. 5.65



No. 82842

No. **82842**—Ebony Handle, 2 Blades, Iron Lined and Bolster ..... per doz. 6.70

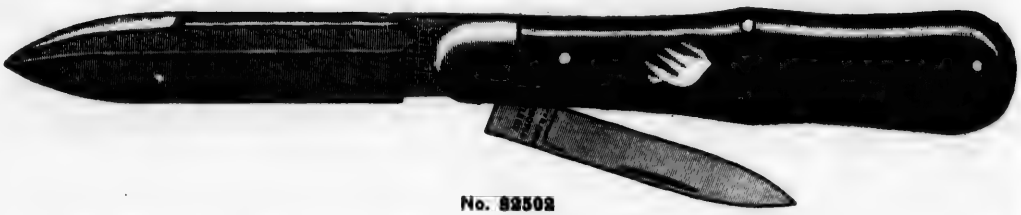


No. 82852

No. **82852**—Ebony Handle, 2 Blades, Iron Lined and Bolster ..... per doz. 7.60

# BOKER'S POCKET KNIVES

Full size cuts.

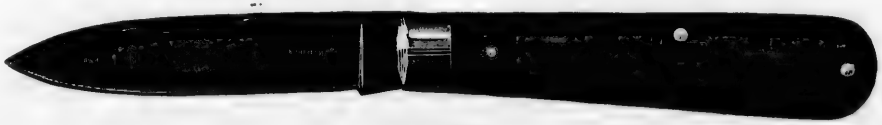


No. 82502

No. **82502**—Ebony Handle, 2 Blades, Large Blade Heavy, Bevelled, Iron Lined and Bolster.....per doz. $7.85

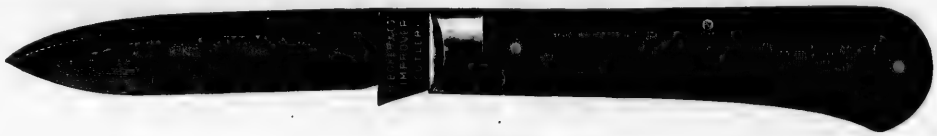
## H. BOKER & CO.'S "KING CUTTER" KNIVES

Blades English Crucible Cast Steel, Hand Forged, Carefully Tempered, Mirror Polished.



No. 01012

No. **01012**—Ebony Handle, 1 Blade, Iron Lined and Bolster.....per doz. 6.00



No. 01502

No **01502**—Ebony Handle, 1 Blade, Iron Lined and Bolster.....per doz. 5.20



No. 02012

No. **02012**—Ebony Handle, 2 Blades, Iron Lined and Bolster.....per doz. 6.35



No. 02502

No. **02502**—Ebony Handle, 2 Blades, Iron Lined and Bolster.....per doz. 6.90

# BOKER'S POCKET KNIVES

Full size cuts.



No. 02833

No. **02833**—Grey Buff Handle, 2 Blades, Brass Lined, German Silver Bolsters.....per doz. $8.75



No. 02022

No. **02022**—Ebony Handle, 2 Blades. Iron Lined and Bolster.....per doz. 7.70



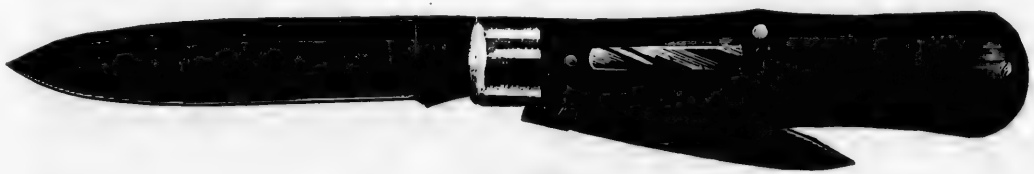
No. 02032

No. **02032**—Ebony Handle, 2 Blades, Iron Lined and Bolster.....per doz. 8.40



No. 02843

No. **02843**—Grey Buff Handle, 2 Blades, Brass Lined, German Silver Bolsters.....per doz. 9.65



No. 02853

No. **02853**—Grey Buff Handle, 2 Blades, Brass Lined, German Silver Bolsters.....per doz. 11.25

# THOMAS TURNER & CO.'S

## POCKET TRADE ENCORE MARK. CUTLERY

### TWO-BLADE PENKNIVES



Nos. 9216 and 9218



No. 9318

No. 9216—2 inch, Ivory Celluloid Handle, 2 Blades, Brass Lined, German Silver Bolsters ..... per doz. $ 7.10
" 9218—2 " Pearl " 2 " " " " ..... " 8.45
" 9318—2½ " " " 2 " " " " ..... " 10.15



Nos. 9206 and 9208



Nos. 9226 and 9228



No. 9306 and 9308

No. 9206—2 inch, Ivory Celluloid Handle, 2 Blades, Brass Lined, German Silver Bolsters ..... per doz. 7.45
" 9208—2 " Pearl " 2 " " " " ..... " 8.45
" 9226—2 " Ivory Celluloid " 2 " " " " ..... " 7.10
" 9228—2 " Pearl " 2 " " " " ..... " 8.10
" 9306—2 " Ivory Celluloid " 2 " " ..... " 6.10
" 9308—2 " Pearl " 2 " " ..... " 7.10



Nos. 9287 and 9288



No. 9298

No. 9287—2¾ inch, Ivory Handle, 2 Blades, Brass Lined, German Silver Bolsters ..... per doz. 12.50
" 9288—2¾ " Pearl " 2 " " " " ..... " 16.20
" 9298—2¾ " " " 2 " " " " ..... " 16.20



Nos. 9230 and 9250



Nos. 9240 and 9260

No. 9230—2½ inch, German Silver Handle, 2 Blades ..... per doz. 8.40
" 9250—2½ " Sterling " 2 " ..... " 24.30
" 9240—2½ " German " Engine Turned, 2 Blades ..... " 13.50
" 9260—2½ " Sterling " " 2 " ..... " 28.35



No. 9540



No. 9550

No. 9540—2¾ inch, German Silver Handle, 2 Blades ..... per doz. 6.40
" 9550—3 " " " 2 " ..... " 6.40

# TURNER'S POCKET KNIVES



No. 9578½



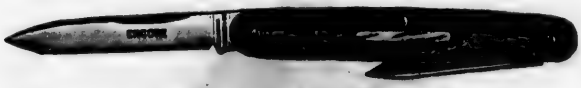
Nos. 9568 and 9588

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | 9568 | —2½ | inch, | Pearl | Handle, | 2 | Blades, | Brass | Lined, | German Silver Bolsters | per doz. $ 9.45 |
| " | 9578½ | —2½ | " | " | " | 2 | " | " | " | " | " 13.50 |
| " | 9588 | —3½ | " | " | " | 2 | " | " | " | " | " 10.80 |



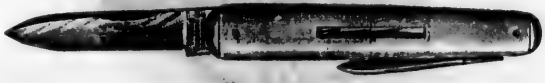
No. 9454. Twothirds size cut.

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| No. | 9443 | —3 | inch, | Grey Buff | Handle, | 2 | Blades, | Brass | Lined, | per doz. 5.75 |
| " | 9444 | —3 | " | Stag | " | 2 | " | " | " | " 5.75 |
| " | 9446 | —3 | " | Ivory Celluloid | " | 2 | " | " | " | " 5.75 |
| " | 9448 | —3 | " | Pearl | " | 2 | " | " | " | " 10 80 |
| " | 9449 | —3 | " | Shell | " | 2 | " | " | " | " 5.75 |
| " | 9453 | —3½ | " | Grey Buff | " | 2 | " | " | " | " 6.10 |
| " | 9454 | —3½ | " | Stag | " | 2 | " | " | " | " 6.10 |
| " | 9456 | —3½ | " | Ivory Celluloid | " | 2 | " | " | " | " 6.10 |
| " | 9458 | —3½ | " | Pearl | " | 2 | " | " | " | " 12.85 |
| " | 9459 | —3½ | " | Shell | " | 2 | " | " | " | " 6.10 |
| " | 9463 | —3½ | " | Grey Buff | " | 2 | " | " | " | " 6.45 |



Nos. 9614 and 9618

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | 9614 | —3½ | inch, | Stag | Handle, | 2 | Blades, | German | Silver | Lined | per doz. 22.95 |
| " | 9618 | —3½ | " | Pearl | " | 2 | " | " | " | " | " 31.05 |



No. 9476

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | 9473 | —3½ | inch, | Grey Buff | Handle, | 2 | Blades, | Brass | Lined, | German | Silver | Bolsters per doz. 8.10 |
| " | 9476 | —3½ | " | Ivory Celluloid | " | 2 | " | " | " | " | " | " 8.10 |
| " | 9478 | —3½ | " | Pearl | " | 2 | " | " | " | " | " | " 14.85 |



Nos. 9407 and 9408



Nos. 9417 and 9418

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | 9407 | —2½ | inch, | Ivory | Handle, | 2 | Blades, | Brass | Lined, | German Silver Bolsters | per doz. 10.15 |
| " | 9408 | —2½ | " | Pearl | " | 2 | " | " | " | " | " 13.50 |
| " | 9417 | —3½ | " | Ivory | " | 2 | " | " | " | " | " 10.80 |
| " | 9418 | —3½ | " | Pearl | " | 2 | " | " | " | " | " 12.85 |



No. 9533

No. 9533—3½ inch, Grey Buff Handle, 2 Blades, Brass Lined, German Silver Bolsters ..... per doz. 9.15

# TURNER'S POCKET KNIVES



**No. 9323**

No. **9323**—3⅛ inch, Grey Buff Handle, 2 Blades, Brass Lined, German Silver Bolsters.....per doz. $7.45
" **9324**—3⅛ " Stag " 2 " " " " " ..... " 9.45



**No. 9606**

No. **9606**—3¼ inch, Pearl Handle, 2 Blades, Brass Lined, German Silver Bolsters .....per doz. 28.35



**No. 9278**

No. **9278**—2½ inch, Pearl Handle, 2 Blades, Brass Lined..... ..per doz. 16.90

## THREE-BLADE PENKNIVES



**Nos. 93636 and 93638**

No. **93636**—3½ inch, Ivory Celluloid Handle, 3 Blades, Brass Lined, German Silver Bolsters..... per doz. 12.85
" **93638**—3½ " Pearl " 3 " " " " ..... " 18.90



**Nos. 93626 and 93628**

No. **93626**—3¼ inch, Ivory Celluloid Handle, 3 Blades, Brass Lined, German Silver Bolsters.....per doz. 16.20
" **93628**—3¼ " Pearl " 3 " " " " ..... " 24.30



**Nos. 93647 and 93648**

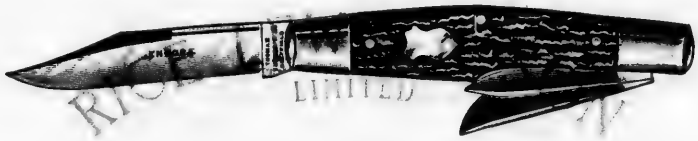
No. **93647**—3½ inch, Ivory Handle, 3 Blades, Brass Lined .....per doz. 31.05
" **93648**—3½ " Pearl " 3 " " ..... " 41.85

# TURNER'S POCKET KNIVES




No. 93334

No. **93333**—3⅜ inch, Grey Buff Handle, 3 Blades, Brass Lined, German Silver Bolsters.....per doz. $10.80
" **93334**—3⅜ " Stag " 3 " " " " " ..... " 10.80
" **93334**—4 " " " 3 " " " " " ..... " 17.55




No. 93924

No. **93924**—3¾ inch, Stag Handle, 3 Blades, Brass Lined, German Silver Bolsters ..... per doz. 18.25




No. 93914

No. **93914**—3⅜ inch, Stag Handle, 3 Blades, Brass Lined, German Silver Bolsters.....per doz. 17.55




No. 93902

No. **93902**—4¼ inch, Buff Handle, 3 Blades, Brass Lined, German Silver Bolsters.....per doz. 20.25

## FOUR-BLADE PENKNIVES



No. 94578

No. **94578**—3 inch, Pearl Handle, 4 Blades, Brass Lined, German Silver Bolsters.....per doz. 20.25

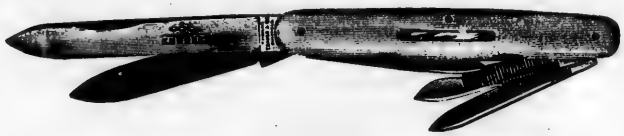
# TURNER'S POCKET KNIVES



No. 94658

No. **94650**—3⅛ inch, German Silver Handle, Brass Lined ..... per doz. $24.30
" **94657**—3⅛ " Ivory Handle, Brass Lined ..... " 30.40
" **94658**—3⅛ " Pearl " " ..... " 33.75

## FIVE-BLADE PENKNIVES



No. 95667

No. **95667**—3½ inch, Ivory Handle, 5 Blades (1 Spear, 2 Pen, 1 Nail, 1 Sterling Fruit Blade,) German Silver Lined ..... per doz. 64.80

## CYCLIST'S KNIFE




No. 95800

No. **95800**—3½ inch Aluminum Handle, Large Spear Blade, Turn Screw and Tire Detacher. ..... per doz. 14.20

## SCISSOR KNIVES



No. 95814

No. **95814**—3⅛ inch, Stag Handle, 2 Blades and Scissors, Brass Lined, German Silver Bolsters ..... per doz. 31.09



No. 95828

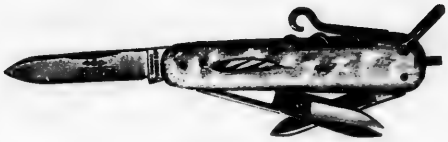
No. **95828**—2½ inch, Pearl Handle, 1 Blade and Scissors, Brass Lined. ..... per doz. 22.95

# TURNER'S POCKET KNIVES

## COMBINATION KNIVES



No. 95838



No. 95848

No. **95838**—3 inch, Pearl Handle, 2 Blades, Button Hook and Cigar Holder.....per doz. $48.60
" **95848**—2⅞ " " 2 " " Scissors, Cork Screw, Tweezers and Picker, " 68.85

RICE LEWIS & SON LIMITED



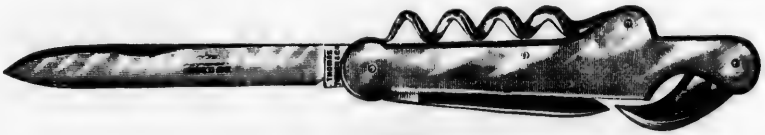
No. 95858

No. **95858**—2⅝ inch, Pearl Handle, 2 Blades, Button Hook and Scissors, Brass Lined.....per doz. 20.25



Nos. 95860 to 95880

No. **95860**—2½ inch, German Silver Handle, 2 Blades, Cork Screw and Button Hook .....per doz. 19.00
" **95870**—2½ " " " 1 " " Button Hook and Scissors..... " 23.65
" **95880**—2½ " " " 2 " " and Nail File ..... " 19.00



No. 95890

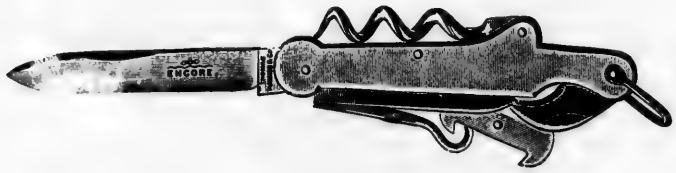
No. **95890**—4 inch, German Silver Handle, 2 Blades, Cork Screw and Wire Cutter .....per doz. 24.30

# TURNER'S POCKET KNIVES



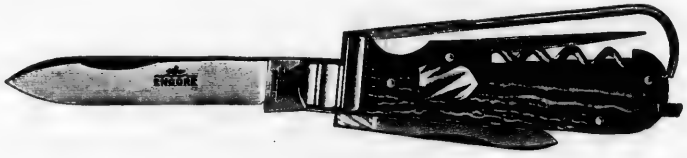
**No. 95910**

**No. 95910**—3½ inch, German Silver Handle, 1 Blade, Cork Screw and Wire Cutter ..... per doz. $14.85



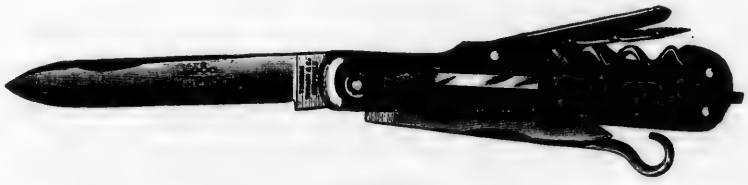
**No. 95900**

**No. 95900**—3½ inch, German Silver Handle, 2 Blades, Button Hook, Cork Screw, Wire Cutter, and Extractor ..... per doz. 13.75



**No. 95924**

**No. 95924**—3 inch, Stag Handle, 2 Blades, Hoof Hook, Cork Screw, Reamer, Tweezers and Picker .. per doz. 14.85



**No. 95934**

**No. 95934**—5½ Inch, Stag Handle with Shackle, 1 Long Blade 4¼ inches, 1 Small Blade 2⅛ inches, Saw, Cork Screw, Gimlet, Reamer, Tweezers and Picker..... per doz. 35.05

# TURNER'S POCKET KNIVES

## YACHTSMAN'S KNIFE



**No. 95920**

No. **95920**—4½ inch, German Silver Handle, with Swivel Shackle, 1 Large Blade, Cork Screw and Marline Spike with Spring Lock ..... per doz. $60.75



**No. 92924**

No. **92924**—3½ inch, Stag Handle, 1 Blade and Timber Scribe, Iron Lined and Bolster ..... per doz. 14.85

## ONE-BLADE POCKET KNIVES




**No. 91280**

No. **91280**—3½ inch, Iron Handle, 1 Blade ..... per doz. 3.05



**No. 91062.** Two-third size cut.

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. **91052**—3 | inch. | Buff | Handle, | 1 | Blade, | Iron | Lined | and | Bolster | per doz. | 3.40 |
| " **91061**—3½ | " | Cocoa | " | 1 | " | " | " | | | " | 3.55 |
| " **91062**—3½ | " | Buff | " | 1 | " | " | " | | | " | 3.55 |
| " **91072**—3½ | " | " | " | 1 | " | " | " | | | " | 4.55 |



**No. 91022.** Two-third size cut.

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. **91002**—3 | inch, | Buff | Handle, | 1 | Blade, | Iron | Lined | and | Bolster. | per doz. | 3.40 |
| " **91022**—3½ | " | " | | 1 | " | " | " | | | " | 4.05 |
| " **91032**—3½ | " | " | | 1 | " | " | " | | | " | 4.75 |

# TURNER'S POCKET KNIVES



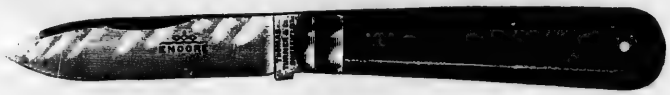
No. 91302

No. **91302**—3½ inch, Buff Handle, 1 Blade, Iron Lined and Bolster, Fisherman's Knife.....per doz. $3.40




No. 91294

No. **91294**—3½ inch, Stag Handle, 1 Blade, Iron Lined and Bolster, Drilled .....per doz. 3.25




No. 91312

No. **91312**—3½ inch, Buff Handle, 1 Blade, Iron Lined and Bolster, Drilled .....per doz. 3.40




No. 91322

No. **91322**—4½ inch, Buff Handle, 1 Blade, Iron Lined and Bolster, Drilled .....per doz. 5.75




No. 91272

No. **91272**—4 inch, Buff Handle, 1 Blade, Iron Lined, German Silver Bolster, Drilled.....per doz. 6.95

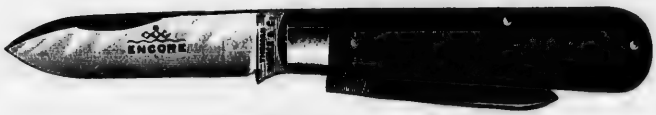
## TWO-BLADE POCKET KNIVES



No. 92072. Two-thirds size cut.

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| No. **92061**—3½ inch, | Cocoa | Handle, | 2 | Blades, | Iron Lined and Bolster | | | per doz. | 5.75 |
| " **92062**—3½ " | Buff | " | 2 | " | " | | | " | 5.75 |
| " **92071**—3½ " | Cocoa | " | 2 | " | " | " | with Name Plate | " | 6.60 |
| " **92072**—3½ " | Buff | " | 2 | " | " | " | " | " | 6.60 |

# TURNER'S POCKET KNIVES




**No. 92032.** Two-third size cut.

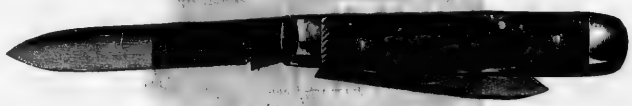
| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| No. **92002**—3 inch, | Buff | Handle, | 2 | Blades, | Iron | Lined and | Bolster | per doz. | $5.10 |
| " **92005**—3 " | White Bone | Handle, | 2 | Blades, | Iron | Lined and | Bolster | " | 5.10 |
| " **92012**—3¼ " | Buff | " | 2 | " | " | " | | " | 5.75 |
| " **92015**—3¼ " | White Bone | " | 2 | " | " | " | | " | 5.75 |
| " **92022**—3½ " | Buff | " | 2 | " | " | " | | " | 5.90 |
| " **92025**—3½ " | White Bone | " | 2 | " | " | " | | " | 5.90 |
| " **92032**—3¾ " | Buff | " | 2 | " | " | " | | " | 6.75 |
| " **92035**—3¾ " | White Bone | " | 2 | " | " | " | | " | 6.75 |
| " **92042**—4 " | Buff | " | 2 | " | " | " | | " | 7.85 |
| " **92045**—4 " | White Bone | " | 2 | " | " | " | | " | 7.85 |

RICE LEWIS & SON LIMITED




**No. 92232**

No. **92232**—4 inch, Buff Handle, 2 Blades, Brass Lined, German Silver Bolster ..... per doz. 11.15



**No. 92253**

No. **92253**—3½ inch, Grey Buff Handle, 2 Blades, Brass Lined, German Silver Bolsters ..... per doz. 8.90



**No. 92132.** Two-third size cut.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| No. **92122**—3⅜ inch, | Buff | Handle, | 2 | Blades, | Iron | Lined and | Bolster | per doz. | 6.10 |
| " **92132**—3⅜ " | " | " | 2 | " | " | " | | " | 6.75 |




**No. 92280**

No. **92280**—3½ inch, Iron Handle, 2 Blades, Drilled ..... per doz. 5.10

# GEORGE WOSTENHOLM & SON'S

## I·X·L

## POCKET CUTLERY

### TWO-BLADE PENKNIVES

Full size cuts.



No. 5528

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| No. | **5527**—2½ | inch, | Ivory | Handle, | 2 | Blades, | Brass | Lined | per doz. $5.85 |
| " | **5528**—2½ | " | Pearl | " | 2 | " | " | | " 8.60 |



No. 5547

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| No. | **5547**—2½ | inch, | Ivory | Handle, | 2 | Blades, | Brass | Lined, | German Silver Bolsters | per doz. 11.40 |
| " | **5548**—2½ | " | Pearl | " | 2 | " | " | " | " | " 15.60 |



No. 5517

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| No. | **5517**—2½ | inch, | Ivory | Handle, | 2 | Blades, | Brass | Lined, | German Silver Bolster | per doz. 7.45 |
| " | **5518**—2½ | " | Pearl | " | 2 | " | " | " | " | " 9.45 |



No. 5443

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| No. | **5443** —3 | inch, | Grey Buff | Handle, | 2 | Blades, | Brass | Lined | | per doz. 6.50 |
| " | **5443½**—3 | " | " | " | 2 | " | " | | with Nail Blade | " 6.50 |
| " | **5444** —3 | " | Stag | " | 2 | " | " | | | " 6.50 |
| " | **5447** —3 | " | Ivory | " | 2 | " | " | | | " 6.50 |
| " | **5447½**—3 | " | " | " | 2 | " | " | | with Nail Blade | " 6.50 |
| " | **5448** —3 | " | Pearl | " | 2 | " | " | | | " 11.10 |
| " | **5448½**—3 | " | " | " | 2 | " | " | | with Nail Blade | " 11.10 |



No. 5453

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| No. | **5453**—3½ | inch, | Grey Buff | Handle, | 2 | Blades, | Brass | Lined | per doz. 6.70 |
| " | **5454**—3½ | " | Stag | " | 2 | " | " | | " 6.70 |
| " | **5457**—3½ | " | Ivory | " | 2 | " | " | | " 6.70 |
| " | **5458**—3½ | " | Pearl | " | 2 | " | " | | " 11.40 |

# WOSTENHOLM'S POCKET KNIVES

Full size cuts.



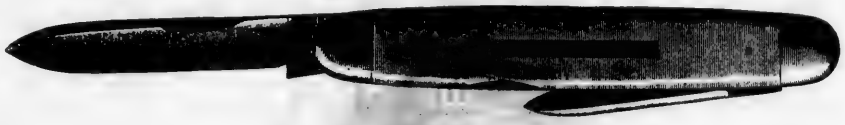
No. 5478

No. **5473**—3¾ inch, Grey Buff Handle, 2 Blades, Brass Lined, German Silver Bolsters.....per doz. $9.10
" **5478**—3¾ " Pearl " 2 " " " " " " 14.30



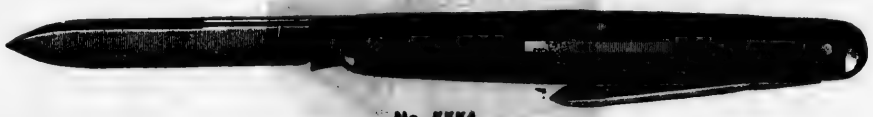
No. 5657

No. **5567**—3 inch, Ivory Handle, 2 Blades, Brass Lined, (with Name Plate, pattern as No. 5657).....per doz. $13.65
" **5568**—3 " Pearl " 2 " " " " " " 17.55
" **5657**—3⅜ " Ivory " 2 " " German Silver Bolsters..... " 9.10
" **5658**—3¼ " Pearl " 2 " " " " " " 16.25
" **5597**—3½ " Ivory " 2 " " " " " " 15.00



No. 5587

No. **5587**—3½ inch, Ivory Handle, 2 Blades, Brass Lined, German Silver Bolsters.....per doz. 14.30



No. 5554

No. **5554**—3½ inch, Stag Handle, 2 Blades, Brass Lined, German Silver Bolsters.....per doz. 14.30




No. 5487

No. **5487**—3½ inch, Ivory Handle, Brass Lined.....per doz. 10.10



No. 52654

No. **52652**—3½ inch, Ebony Handle, 2 Blades, Brass Lined, German Silver Bolsters.....per doz. 9.30
" **52654**—3½ " Stag " 2 " " " " " " 9.90

# WOSTENHOLM'S POCKET KNIVES

## THREE-BLADE PENKNIVES

Full size cuts.



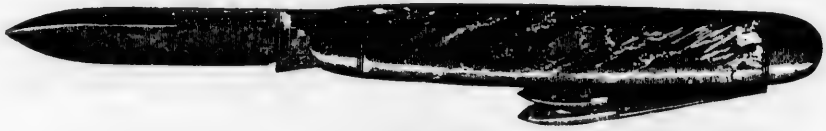
No. 53813

No. **53814**—3½ inch, Stag Handle, 3 Blades, Brass Lined, German Silver Bolsters.....per doz. $17.25
" **53813**—3½ " Pearl " 3 " without Name Plate, pattern as No. 53814..... " 23.10



No. 53717

No. **53717**—3¾ inch, Ivory Handle, 3 Blades, Brass Lined, German Silver Bolsters..... ....per doz. 12.05



No. 53588

No. **53587**—3⅜ inch, Ivory Handle, 3 Blades, Brass Lined, German Silver Bolsters.....per doz. 13.00
" **53588**—3⅜ " Pearl " 3 " " " " ..... .. " 17.55



No. 53597

No. **53594**—3½ inch, Stag Handle, 3 Blades, Brass Lined, German Silver Bolsters.....per doz. 18.55
" **53597**—3½ " Ivory " 3 " " " " ..... " 18.20
" **53627**—3⅜ " " " (Heavy Oval), 3 Blades, Brass Lined, German Silver Bolsters.... " 20.80
" **53628**—3⅜ " Pearl " " 3 " " " " .... " 24.70

# WOSTENHOLM'S POCKET KNIVES

## THREE-BLADE POCKET KNIVES

Full size cuts.



Nos. 53822 and 53824



Nos. 53832 to 53844



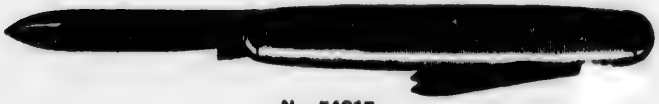
No. 53854

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No. | 53822 | –3½ inch, | Buff | Handle, | 3 | Blades, | Brass Lined, German Silver Bolsters..... per doz. | $15.00 |
| " | 53824 | –3½ " | Stag | " | 3 | " | Iron Lined and Bolster..... " | 15.30 |
| " | 53832 | –3⅝ " | Buff | " | 3 | " | Brass Lined, German Silver Bolsters..... " | 17.25 |
| " | 53834 | –3⅝ " | Stag | " | 3 | " | " " " ..... " | 19.35 |
| " | 53838 | –3⅝ " | Pearl | " | 3 | " | " " " ..... " | 28.60 |
| " | 53841 | –4 " | Stag | " | 3 | " | Full Polished, Brass Lined, German Silver Bolsters.... " | 24.70 |
| " | 53854 | –4¼ " | Stag | " | 3 | " | Brass Lined, German Silver Bolsters..... " | 27.30 |

# WOSTENHOLM'S POCKET KNIVES

## FOUR-BLADE PENKNIVES

Full size cuts.



No. 54917

No. **54917**—2¾ inch, Ivory Handle, 4 Blades, Brass Lined, German Silver Bolsters.....per doz. $19.00
" **54918**—2¾ " Pearl " 4 " " " " " " 22.45



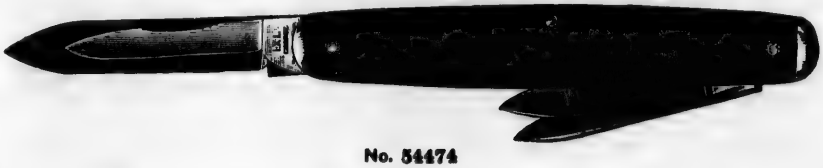
No. 54554

No. **54554**—3½ inch, Stag Handle, 4 Blades, Brass Lined, German Silver Bolsters.....per doz. 21.15



No. 54748

No. **54747**—3¾ inch, Ivory Handle, 4 Blades, Brass Lined, German Silver Bolsters.....per doz. 21.15
" **54748**—3¾ " Pearl " 4 " " " " " " 30.55



No. 54474

No. **54474**—3¾ inch, Stag Handle, 4 Blades, Brass Lined, German Silver Bolsters.....per doz. 14.00
" **54477**—3¾ " Ivory " 4 " " " " " " 14.95
" **54478**—3¾ " Pearl " 4 " " " " " " 21.45

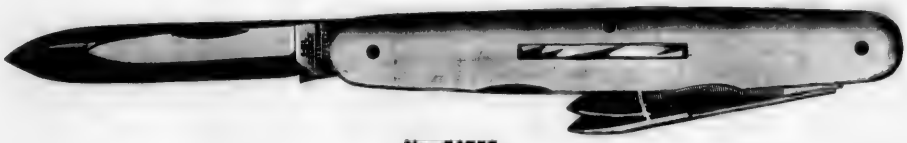


No. 54908

No. **54907**—3½ inch, Ivory Handle, 4 Blades, Brass Lined, German Silver Bolsters.....per doz. 20.80
" **54908**—3½ " Pearl " 4 " " " " " " 28.00

# WOSTENHOLM'S POCKET KNIVES

Full size cuts.



No. 54758

No. **54758**—3¾ inch, Pearl Handle, 4 Blades, Brass Lined.....per doz. $35.75




No. 55920

No. **55920**—4 inch, German Silver Handle.....per doz. 33.80



No. 55934

No. **55934**—3¾ inch, Stag Handle, 2 Blades, Fleam, Hoof Hook, Cork Screw and Reamer.....per doz. 20.15



No. 55944

No. **55944**—3¾ inch, Stag Handle, 2 Blades, Saw, Fleam, Hoof Hook, Cork Screw, Gimlet, Reamer, Tweezers and Picker.....per doz. 34.50

# WOSTENHOLM'S POCKET KNIVES

## ONE-BLADE POCKET KNIVES

Full size cuts.




| Nos. 51080 | 51062 | 51032 | 51042 | 51182 | 51692 |
|---|---|---|---|---|---|

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | 51080—3½ | inch, | Iron Handle, | 1 | Blade | | | | | per doz. | $3.60 |
| " | 51062—3½ | " | Buff | " | 1 | " | Brass Lined, German Silver Bolster | | | " | 5.35 |
| " | 51022—3¾ | " | " | " | 1 | " | Iron Lined and Bolster (pattern as No. 51032) | | | " | 4.55 |
| " | 51025—3¾ | " | White Bone Handle, | | 1 | Blade, | Iron Lined and Bolster (pattern as No. 51032) | | | " | 4.55 |
| " | 51032—3¾ | " | Buff | " | 1 | " | " | " | " | " | 5.05 |
| " | 51035—3¾ | " | White Bone | " | 1 | " | " | " | " | " | 5.05 |
| " | 51042—3¾ | " | Buff | " | 1 | " | " | " | " | " | 5.85 |
| " | 51182—3¾ | " | " | " | 1 | " | " | " | " | " | 6.00 |
| " | 51692—4¼ | " | " | " | 1 | " | " | German Silver Bolster | | " | 8.50 |

# WOSTENHOLM'S POCKET KNIVES

**ONE-BLADE** Full size cuts. **TWO-BLADE**




| Nos. 51123 | 51133 | 51143 | 52062 | 52233 | 52042 | |
|---|---|---|---|---|---|---|
| No. 51123—3¾ | inch, Grey Buff Handle, | 1 | Blade, Iron Lined and Bolster ..... | | per doz. | $5.35 |
| " 51133—3¾ | " " " | 1 | " " " ..... | | " | 5.85 |
| " 51143—3¾ | " " " | 1 | " " " ..... | | " | 6.50 |
| " 52062—3¾ | " Buff " | 2 | " Brass Lined, G. S. Bolster (pattern as No. 52062) ... | | " | 7.45 |
| " 52072—3¾ | " " " | 2 | " " " " " ... | | " | 8.30 |
| " 52082—3¾ | " " " | 2 | " " " ..... | | " | 9.60 |
| " 52233—3¾ | " Grey Buff " | 2 | " " " ..... | | " | 12.05 |
| " 52022—3¾ | " Buff " | 2 | " Iron Lined and Bolster (pattern as No. 52042 ..... | | " | 6.85 |
| " 52025—3¾ | " White Bone " | 2 | " " " " " ..... | | " | 6.85 |
| " 52032—3¾ | " Buff " | 2 | " " " " ..... | | " | 7.45 |
| " 52035—3¾ | " White Bone " | 2 | " " " ..... | | " | 7.45 |
| " 52042—3¾ | " Buff " | 2 | " " " ..... | | " | 8.50 |
| " 52045—3¾ | " White Bone " | 2 | " " " ..... | | " | 8.50 |

# WOSTENHOLM'S POCKET KNIVES

Full size cuts.

## TWO-BLADE POCKET KNIVES



Nos. 52692 52172 52182 52133 52143 52152

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. | 52692 | 4½ | inch, | Buff | Handle, | 2 | Blades, | Iron Lined, | German Silver Bolster | per doz. | $11.20 |
| " | 52694 | 4½ | " | Stag | " | 2 | " | " | " | " | 12.50 |
| " | 52172 | 3½ | " | Buff | " | 2 | " | " | " | " | 9.10 |
| " | 52182 | 3½ | " | " | " | 2 | " | " | and Bolster | " | 9.75 |
| " | 52133 | 3½ | " | Grey Buff | " | 2 | " | " | " | " | 8.65 |
| " | 52143 | 3½ | " | " | " | 2 | " | " | " | " | 9.45 |
| " | 52152 | 4 | " | Buff | " | 2 | " | Brass Lined, | German Silver Bolsters | " | 9.75 |

# JOSEPH RODGERS & SON'S

TRADE (✠) MARK

## POCKET CUTLERY

Full size cuts.



**No. 10129**

No. **10127**—2¾ inch, Ivory Handle, 1 Blade, Brass Lined, German Silver Bolster ..... per doz. $6.45
" **10129**—2¾ " Shell " 1 " " " " ..... " 10.50

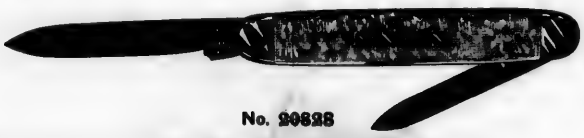


**No. 20207**



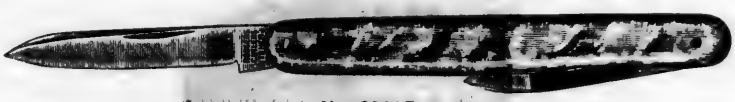
**No. 20217**

No. **20207**—2¾ inch, Ivory Handle, 2 Blades, Brass Lined, German Silver Bolsters ..... per doz. 11.65
" **20217**—2¾ " Ivory " 2 " " " " ..... " 11.65
" **20218**—2¾ " Pearl " 2 " " " " ..... " 15.55



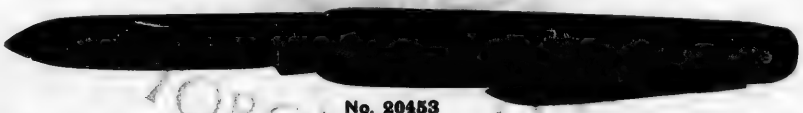
**No. 20828**

No. **20828**—2¼ inch, Pearl Handle, 2 Blades, Brass Lined, German Silver Bolster ..... per doz. 20.25
" **20838**—3 " " " 2 " " " " ..... " 22.95
" **20912**—3¼ " Buff " 2 " without Name Plate (pattern as No. 20828) ..... " 21.00



**No. 20237**

No. **20237**—3 inch, Ivory Handle, 2 Blades, Brass Lined ..... per doz. 8.75
" **20238**—3 " Pearl " 2 " " ..... " 12.85



**No. 20453**

No. **20433**—2¾ inch, Buff Handle, 2 Blades, Brass Lined ..... per doz. 7.00
" **20437**—2¾ " Ivory " 2 " " ..... " 7.00
" **20438**—2¾ " Pearl " 2 " " ..... " 12.05
" **20443**—3 " Buff " 2 " " ..... " 7.40
" **20443½**—3 " " " with Nail Blade (pattern as No. 20443) ..... " 7.40
" **20444**—3 " Stag " 2 Blades, Brass Lined ..... " 7.40
" **20447**—3 " Ivory " 2 " " ..... " 7.40
" **20447½**—3 " " " with Nail Blade (pattern as No. 20447) ..... " 7.40
" **20448**—3 " Pearl " 2 Blades, Brass Lined ..... " 12.45
" **20448½**—3 " " " with Nail Blade (pattern as No. 20448) ..... " 12.45
" **20451**—3½ " Cocoa " 2 Blades, Brass Lined ..... " 7.[illegible]
" **20453**—3½ " Buff " 2 " " ..... " 7.60
" **20453½**—3½ " " " with Nail Blade (pattern as No. 20453) ..... " 7.60
" **20454**—3½ " Stag " 2 Blades, Brass Lined ..... " 7.60
" **20457**—3½ " Ivory " 2 " " ..... " 7.60
" **20457½**—3½ " " " with Nail Blade (pattern as No. 20457) ..... " 7.60
" **20458**—3½ " Pearl " 2 Blades, Brass Lined ..... " 12.85
" **20458½**—3½ " " " with Nail Blade (pattern as No. 20458½) ..... " 12.85
" **20463**—3½ " Buff " 2 Blades, Brass Lined ..... " 8.75
" **20464**—3½ " Stag " 2 " " ..... " 8.75
" **20467**—3½ " Ivory " 2 " " ..... " 8.75
" **20468**—3½ " Pearl " 2 " " ..... " 17.15

# RODGERS' POCKET KNIVES

Full size cuts.



**No. 20497**

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. **20493**—3¼ inch, | Buff | Handle, | 2 | Blades, | Brass | Lined, | German | Silver | Bo'sters | per doz. | $12.85 |
| " **20494**—3¼ " | Stag | " | 2 | " | " | " | " | " | | " | 12.85 |
| " **20497**—3¼ " | Ivory | " | 2 | " | " | " | " | " | | " | 12.85 |



**No. 20668**

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. **20668**—3 inch, | Pearl | Handle, | 2 | Blades, | Brass | Lined, | German | Silver | Bolsters | per doz. | 16.35 |
| " **20671**—3¼ " | Cocoa | " | 2 | " | " | " | " | " | | " | 12.85 |
| " **20673**—3¼ " | Buff | " | 2 | " | " | " | " | " | | " | 12.85 |



**No. 20658**

No. **20658**—3¼ inch, Pearl Handle, 2 Blades, Brass Lined, German Silver Bolsters ..... per doz. 17.50



**No. 20597**

No. **20597**—3¾ inch, Ivory Handle, German Silver Bolsters ..... per doz. 25.70



**No. 20418**

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. **20408**—2¾ inch, | Pearl | Handle, | 2 | Blades, | Brass | Lined, | German | Silver | Bolsters | per doz. | 23.35 |
| " **20412**—3 " | Buff | " | 2 | " | " | " | " | " | | " | 17.50 |
| " **20417**—3 " | Ivory | " | 2 | " | " | " | " | " | | " | 19.45 |
| " **20418**—3 " | Pearl | " | 2 | " | " | " | " | " | | " | 24.50 |
| " **20419**—3 " | Shell | " | 2 | " | " | " | " | " | | " | 23.35 |
| " **20428**—3¼ " | Ivory | " | 2 | " | " | " | " | " | | " | 25.70 |
| " **20648**—3¼ " | Pearl | " | 2 | " | " | " | " | " | | " | 25.70 |

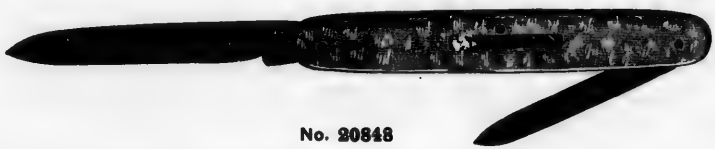


**No. 20537**

No. **20537**—3¼ inch, Ivory Handle, 2 Blades, Brass Lined, German Silver Bolsters ..... per doz. 22.60

# RODGERS' POCKET KNIVES

Full size cuts.



**No. 20848**

No. **20848**—2¼ inch, Pearl Handle, 2 Blades, Brass Lined ..... per doz. $23.35



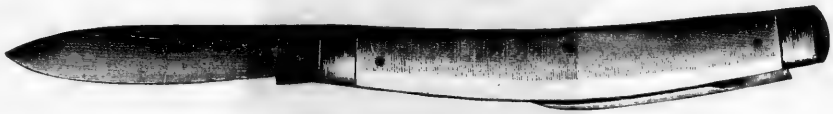
**No. 20344**

No. **20343**—3½ inch, Grey Buff Handle, 2 Blades, Brass Lined..... per doz. 9.55
" **20344**—3½ " Stag " 2 " " ..... " 9.55
" **20347**—3½ " Ivory " 2 " " ..... " 9.55




**No. 20323**

No. **20323**—3⅜ inch, Buff Handle, 2 Blades, Brass Lined, German Silver Bolsters..... per doz. 20.40
" **20324**—3⅜ " Stag " 2 " " " " ..... " 20.40



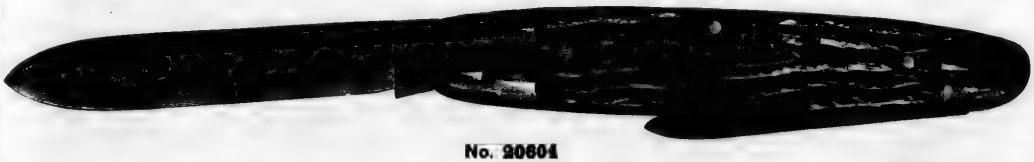
**No. 20487**

No. **20487**—3½ inch, Ivory Handle, 2 Blades, Brass Lined, German Silver Bolsters..... per doz. 9.35



**No. 20734**

No. **20734**—3¾ inch, Stag Handle, 2 Blades, Brass Lined, German Silver Bolsters..... per doz. 21.80
" **20737**—3¾ inch, Ivory " 2 " " " " ..... " 19.85



**No. 20604**

No. **20604**—3½ inch, Stag Horn Handle, 2 Blades, Brass Lined, German Silver Bolsters..... per doz. 26.45
" **20607**—3½ " Ivory " 2 " " " " ..... " 27.25
" **20608**—3½ " Pearl " 2 " " " " ..... " 34.25

RICE LEWIS & SON

# RODGERS' POCKET KNIVES

## THREE-BLADE PENKNIVES

Full size cuts.



No. 33464. Cut of 3½ inch.

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| No. **33463**—3½ inch, | Buff | Handle, | 3 | Blades, | Brass | Lined | | per doz. | $11.70 |
| " **33464**—3½ " | Stag | " | 3 | " | " | | | " | 11.70 |
| " **33467**—3½ " | Ivory | " | 3 | " | " | | | " | 11.70 |



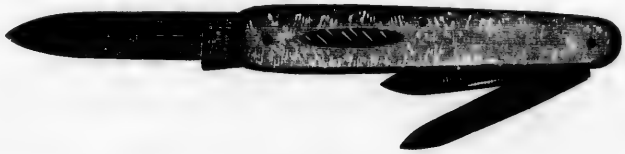
No. 33494

No. **33494**—3½ inch, Stag Handle, 3 Blades, Brass Lined, German Silver Bolsters ..... per doz. 15.75



No. 33583

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| No. **33583**—3½ inch, | Buff | Handle, | 3 | Blades, | Brass | Lined, | German | Silver | Bolsters | per doz. 17.50 |
| " **33584**—3½ " | Stag | " | 3 | " | " | " | " | " | | " 17.50 |
| " **33587**—3½ " | Ivory | " | 3 | " | " | " | " | " | | " 17.50 |



No. 33698

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| No. **33688**—2 inch, | Pearl | Handle, | 3 | Blades, | Brass | Lined, | German | Silver | Bolsters | per doz. 17.50 |
| " **33698**—2½ " | " | " | 3 | " | " | " | " | " | | " 17.50 |



No. 33318

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| No. **33898**—2½ inch, | Pearl | Handle, | 3 | Blades, | Brass | Lined, | German | Silver | Bolsters | per doz. 28.80 |
| " **33318**—3½ " | " | " | 3 | " | " | " | " | " | | " 35.00 |
| " **33907**—3½ " | Ivory | Handle, | 3 | " | " | " | " | " | without Name Plate | " 29.15 |

# RODGERS' POCKET KNIVES

Full size cuts.



No. 33757

No. **33754**—3⅛ inch, Stag Handle, 3 Blades, Brass Lined, German Silver Bolsters.....per doz. $25.35
" **33757**—3⅛ " Ivory " 3 " " " " ..... " 25.35



No. 33617

No. **33612**—3⅛ inch, Buff Handle, 3 Blades, Brass Lined, German Silver Bolsters.....per doz. 23.35
" **33617**—3⅛ " Ivory " 3 " " " " ..... " 24.15
" **33618**—3⅛ " Pearl " 3 " " " " ..... " 28.00



No. 33734

No. **33734**—3½ inch, Stag Handle, 3 Blades, Brass Lined, German Silver Bolsters.....per doz. 26.45
" **33738**—3½ " Pearl " 3 " " " " ..... " 31.50




No. 33914

No. **33914**—3½ inch, Stag Handle, 3 Blades, Brass Lined, German Silver Bolsters.....per doz. 14.80

## FOUR-BLADE PENKNIVES



No. 44298

No. **44298**—2⅞ inch, Pearl Handle, 4 Blades, Brass Lined, German Silver Bolsters.....per doz. 34.25

# RODGERS' POCKET KNIVES



**No. 44968**

No. **44968**—3¼ inch, Pearl Handle, 4 Blades, Brass Lined ..... per doz. $25.10



**No. 44498**

No. **44494**—3¼ inch, Stag Handle, 4 Blades, Brass Lined, German Silver Bolsters ..... per doz. 17.50
" **44498**—3¼ " Pearl " 4 " " " " ..... " 23.35

## ONE-BLADE POCKET KNIVES




**No. 11062.** Three-quarters size cut.

No. **11062**—3¼ inch, Buff Handle, 1 Blade, Brass Lined, German Silver Bolster ..... per doz. 5.85




**No. 11582.** Three-quarters size cut.

No. **11581**—4 inch, Cocoa Handle, 1 Blade, Brass Lined, German Silver Bolster ..... per doz. 7.80
" **11582**—4 " Buff " 1 " " " " ..... " 8.35




**No. 11935.** Full size cut.

No. **11931**—3¼ inch, Cocoa Handle, 1 Blade, Iron Lined and Bolster ..... per doz. 4.50
" **11932**—3¼ " Buff " 1 " " " ..... " 4.70
" **11934**—3¼ " Stag " 1 " " " ..... " 4.70
" **11935**—3¼ " White Horn Handle, 1 Blade, Iron Lined and Polster ..... " 4.70
" **11941**—3½ " Cocoa " 1 " " " ..... " 4.90
" **11942**—3½ " Buff " 1 " " " ..... " 5.05
" **11944**—3½ " Stag " 1 " " " ..... " 5.05
" **11945**—3½ " White Horn " 1 " " " ..... " 5.05

# RODGERS' POCKET KNIVES




**No. 11712.** Full size cut.

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. **11712**—2¾ | inch, | Buff | Handle, | 1 | Blade, | Iron | Lined and | Bolster | | per doz. | $4.30 |
| " **11722**—3 | " | " | " | 1 | " | " | " | | | " | 4.90 |
| " **11731**—3¼ | " | Cocoa | " | 1 | " | " | " | | | " | 5.25 |
| " **11732**—3¼ | " | Buff | " | 1 | " | " | " | | | " | 5.25 |
| " **11734**—3¼ | " | Stag | " | 1 | " | " | " | | | " | 5.25 |
| " **11735**—3¼ | " | White Bone | Handle, | 1 | Blade, | Iron | Lined and | Bolster | | " | 5.25 |
| " **11741**—3½ | " | Cocoa | " | 1 | " | " | " | | | " | 5.85 |
| " **11742**—3½ | " | Buff | " | 1 | " | " | " | | | " | 5.85 |
| " **11744**—3½ | " | Stag | " | 1 | " | " | " | | | " | 5.85 |
| " **11745**—3½ | " | White Bone | " | 1 | " | " | " | | | " | 5.85 |
| " **11752**—3¾ | " | Buff | " | 1 | " | " | " | | | " | 6.60 |
| " **11755**—3¾ | " | White Bone | " | 1 | " | " | " | | | " | 6.60 |
| " **11762**—4 | " | Buff | " | 1 | " | " | " | | | " | 7.60 |
| " **11765**—4 | " | White Bone | " | 1 | " | " | " | | | " | 7.60 |




**No. 11832.** Three-quarter size cut.

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. **11811**—2¾ | inch, | Cocoa | Handle, | 1 | Blade, | Iron | Lined and | Bolster | | per doz. | 5.05 |
| " **11812**—2¾ | " | Buff | " | 1 | " | " | " | | | " | 5.05 |
| " **11815**—2¾ | " | White Bone | Handle, | 1 | Blade, | Iron | Lined and | Bolster | | " | 5.05 |
| " **11831**—3¼ | " | Cocoa | " | 1 | " | " | " | | | " | 5.65 |
| " **11832**—3¼ | " | Buff | " | 1 | " | " | " | | | " | 5.65 |
| " **11835**—3¼ | " | White Bone | " | 1 | " | " | " | | | " | 5.65 |
| " **11852**—3¾ | " | Buff | " | 1 | " | " | " | | | " | 6.10 |
| " **11855**—3¾ | " | White Bone | " | 1 | " | " | " | | | " | 6.10 |




**No. 11182.** Three-quarter size cut.

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. **11182**—3¾ | inch, | Buff | Handle, | 1 | Blade, | Iron | Lined and | Bolster | | per doz. | 6.90 |
| " **11184**—3¾ | " | Stag | " | 1 | " | " | " | | | " | 6.90 |
| " **11185**—3¾ | " | White Bone | Handle, | 1 | Blade, | Iron | Lined and | Bolster | | " | 6.90 |
| " **11192**—4 | " | Buff | " | 1 | " | " | " | | | " | 7.80 |
| " **11194**—4 | " | Stag | " | 1 | " | " | " | | | " | 7.80 |
| " **11195**—4 | " | White Bone | " | 1 | " | " | " | | | " | 7.80 |

PRICE LEWIS & SON LIMITED TORONTO, ONT.

# RODGERS' POCKET KNIVES




**No. 11694.** Three-quarter size cut.

| | | | |
|---|---|---|---|
| No. **11692**—4¼ inch, Buff Handle, 1 Blade, Iron Lined, German Silver Bolster | per doz. | 11.10 |
| " **11694**—4¼ " Stag " 1 " " " " " | " | 11.10 |
| " **11695**—4¼ " White Bone Handle, 1 Blade, Iron Lined, German Silver Bolster | " | 11.10 |



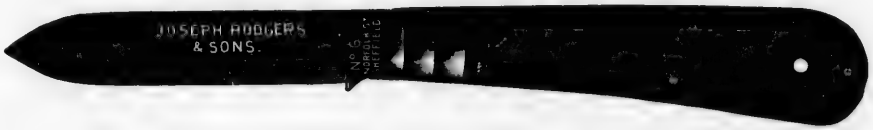

**No. 11515.** Full size cut.

| | | | |
|---|---|---|---|
| No. **11502**—2⅜ inch, Buff Handle, 1 Blade, Iron Lined and Bolster | per doz. | 3.90 |
| " **11505**—2⅜ " White Bone Handle, 1 Blade, Iron Lined and Bolster | " | 4.30 |
| " **11511**—3 " Cocoa " 1 " " " | " | 4.50 |
| " **11512**—3 " Buff " 1 " " " | " | 4.50 |
| " **11515**—3 " White Bone " 1 " " " | " | 4.90 |




**No. 11132.** Full size cut.

| | | | |
|---|---|---|---|
| No. **11101**—2⅜ inch, Cocoa Handle, 1 Blade, Iron Lined and Bolster | per doz. | 4.70 |
| " **11102**—2⅜ " Buff " 1 " " " | " | 4.70 |
| " **11122**—3¼ " " " 1 " " " | " | 5.85 |
| " **11132**—3¼ " " " 1 " " " | " | 6.45 |
| " **11142**—3¼ " " " 1 " " " | " | 7.00 |




**No. 11902.** Three-quarter size cut.

| | | |
|---|---|---|
| No. **11902**—4¼ inch, Buff Handle, 1 Blade, Iron Lined and Bolster, Drilled | per doz. | 6.80 |




**No. 11882.** Three-quarter size cut.

| | | | |
|---|---|---|---|
| No. **11882**—4 inch, Buff Handle, 1 Blade, Iron Lined and Bolster, Drilled | per doz. | 7.00 |
| " **11872**—4 " " 1 " " " " with Clip Blade | " | 7.00 |

# RODGERS' POCKET KNIVES




**No. 11892.** Three-quarters size cut.

No. **11892**—4½ inch, Buff Handle, 1 Blade, Iron Lined, Drilled.....per doz. **$8.95**

## TWO-BLADE POCKET KNIVES



**No. 22572.** Three-quarter size cut.

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. **22572**—3½ | inch, | Buff Handle, | 2 | Blades, | Brass Lined, | German Silver Bolster | | | | per doz. | 10.90 |
| " **22575**—3½ | " | White Bone Handle, | 2 | Blades, | Brass Lined, | German Silver Bolster | | | | " | 10.90 |
| " **22581**—4 | " | Cocoa | " | 2 | " | " | " | " | " | " | 11.10 |
| " **22582**—4 | " | Buff | " | 2 | " | " | " | " | " | " | 11.70 |



**No. 22935.** Full size cut.

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. **22922**—3 | inch, | Buff Handle, | 2 | Blades, | Iron Lined and Bolster | | | | | per doz. | 7.40 |
| " **22925**—3 | " | White Bone Handle, | 2 | Blades, | Iron Lined and Bolster | | | | | " | 7.40 |
| " **22932**—3½ | " | Buff | " | 2 | " | " | " | | | " | 7.60 |
| " **22935**—3½ | " | White Bone | " | 2 | " | " | " | | | " | 7.60 |
| " **22942**—3½ | " | Buff | " | 2 | " | " | " | | | " | 8.20 |
| " **22945**—3½ | " | White Bone | " | 2 | " | " | " | | | " | 8.20 |



**No. 22754.** Full size cut.

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. **22712**—2½ | inch, | Buff Handle, | 2 | Blades, | Iron Lined and Bolster | | | | | per doz. | 6.45 |
| " **22715**—2½ | " | White Bone Handle, | 2 | Blades, | Iron Lined and Bolster | | | | | " | 6.45 |
| " **22722**—3 | " | Buff | " | 2 | " | " | " | | | " | 7.00 |
| " **22725**—3 | " | White Bone | " | 2 | " | " | " | | | " | 7.00 |
| " **22731**—3½ | " | Cocoa | " | 2 | " | " | " | | | " | 7.80 |
| " **22732**—3½ | " | Buff | " | 2 | " | " | " | | | " | 7.80 |
| " **22735**—3½ | " | White Bone | " | 2 | " | " | " | | | " | 7.80 |
| " **22741**—3½ | " | Cocoa | " | 2 | " | " | " | | | " | 8.55 |
| " **22742**—3½ | " | Buff | " | 2 | " | " | " | | | " | 8.55 |
| " **22744**—3½ | " | Stag | " | 2 | " | " | " | | | " | 8.55 |
| " **22745**—3½ | " | White Bone | " | 2 | " | " | " | | | " | 8.55 |
| " **22752**—3¾ | " | Buff | " | 2 | " | " | " | | | " | 9.55 |
| " **22754**—3¾ | " | Stag | " | 2 | " | " | " | | | " | 9.55 |
| " **22762**—4 | " | Buff | " | 2 | " | " | " | | | " | 10.90 |
| " **22765**—4 | " | White Bone | " | 2 | " | " | " | | | " | 10.90 |

# RODGERS' POCKET KNIVES



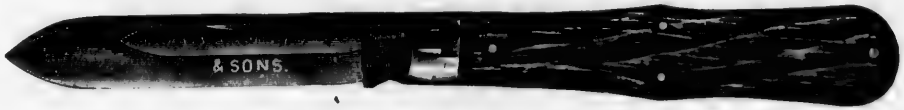
**No. 22692.** Full size cut.

No. **22692**—4 inch, Buff Handle, 2 Blades, Iron Lined and Bolster ..... per doz. $11.10
" **22694**—4 " Stag " 2 " " " ..... " 11.10




**No. 22182.** Three-quarter size cut.

No. **22182**—3½ inch, Buff Handle, 2 Blades, Iron Lined and Bolster ..... per doz. 10.10
" **22184**—3½ " Stag " 2 " " " ..... " 10.10
" **22185**—3½ " White Bone Handle, 2 Blades, Iron Lined and Bolster ..... " 10.10
" **22192**—4 " Buff " 2 " " " ..... " 11.70
" **22194**—4 " Stag " 2 " " " ..... " 11.70
" **22195**—4 " White Bone " 2 " " " ..... " 11.70




**No. 22694.** Three-quarter size cut.

No. **22692**—4⅛ inch, Buff Handle, 2 Blades, Iron Lined, German Silver Bolster ..... per doz. 14.20
" **22694**—4⅛ " Stag " 2 " " " " " ..... " 14.20
" **22695**—4⅛ " White Bone Handle, 2 Blades, Iron Lined, German Silver Bolster ..... " 14.20




**No. 22132.** Full size cut.

No. **22101**—2¾ inch, Cocoa Handle, 2 Blades, Iron Lined and Bolster ..... per doz. 7.40
" **22102**—2¾ " Buff " 2 " " " ..... " 7.40
" **22122**—3¼ " " " 2 " " " ..... " 9.55
" **22132**—3¼ " " " 2 " " " ..... " 10.10
" **22142**—3¼ " " " 2 " " " ..... " 10.50




**No. 22882.** Three-quarter size cut.

No. **22882**—3⅛ inch, Buff Handle, 2 Blades, Iron Lined and Bolster, Drilled ..... per doz. 11.70

# EDWARDS SONS & CO.'S

## POCKET CUTLERY

Full size cuts.

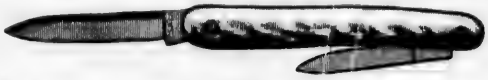


**No. 6128**

No. **6125**—White Bone Handle, 1 Blade, Brass Lined, German Silver Bolster ..... per doz. $1.80
" **6128**—Pearl " 1 " " " " " " 3.70



**No. 6607**



**No. 6208**

No. **6607**—Ivory Handle, 2 Blades, Brass Lined, German Silver Bolsters ..... per doz. 2.40
" **6608**—Pearl " as No. 6607 ..... " 3.50
" **6208**— " " 2 Blades, Brass Lined ..... " 3.75



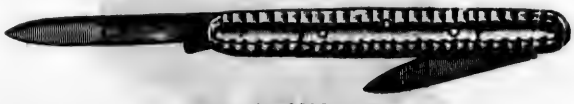
**No. 6218**

No. **6218**—Pearl Handle, 2 Blades, Brass Lined, German Silver Bolsters ..... per doz. 3.00



**No. 6576**

No. **6576**—White Bone Handle, 2 Blades, Brass Lined, German Silver Bolsters ..... per doz. 2.45
" **6578**—Pearl " 2 " " " " " " 2.85



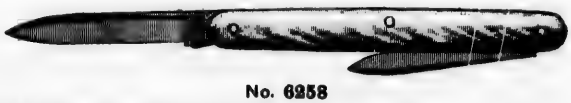
**No. 6228**

No. **6228**—Pearl Handle, 2 Blades, Brass Lined, German Silver Bolsters ..... per doz. 3.00



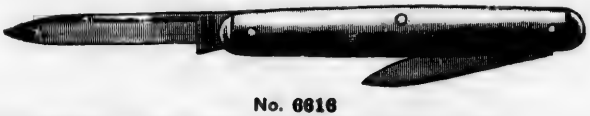
**No. 6248**

No. **6248**—Pearl Handle, 2 Blades, Brass Lined and Bolsters ..... per doz. 3.00



**No. 6258**

No. **6258**—Pearl Handle, 2 Blades, Brass Lined and Bolsters ..... per doz. 4.30



**No. 6616**

No. **6616**—Ivory Celluloid Handle, 2 Blades, Brass Lined, German Silver Bolsters ..... per doz. 2.00

# EDWARDS' POCKET KNIVES

Full size cuts.



No. 6625

No. **6625**—White Bone Handle, 2 Blades, Brass Lined.....per doz. 2.75



No. 6268

No. **6268**—Pearl Handle, 2 Blades, Brass Lined, German Silver Bolsters.....per doz. 3.25



No. 6638

No. **6638**—Pearl Handle, 2 Blade4, Brass Lined, German Silver Bolsters.....per doz. 4.70



No. 6435

No. **6433**—Grey Buff Handle, 2 Blades, Brass Lined.....per doz. 2.90
" **6435**—White Bone " 2 " " ..... " 2.60



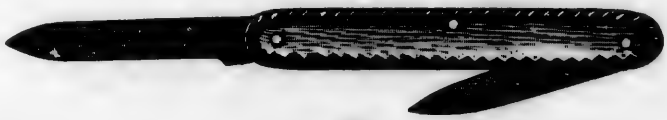
No. 6798

No. **6798**—Pearl Handle, 2 Blades, Brass Lined, German Silver Bolsters .....per doz. 4.20



No. 6826

No. **6826**—Ivory Celluloid Handle, 2 Blades, Brass Lined, German Silver Bolsters.....per doz. 3.10
" **6828**—Pearl " 2 " " " " ..... " 3.50



No. 6276

No. **6276**—Ivory Celluloid Handle, 2 Blades, Brass Lined, German Silver Edges .....per doz. 2.65

# EDWARDS' POCKET KNIVES

Full size cuts.



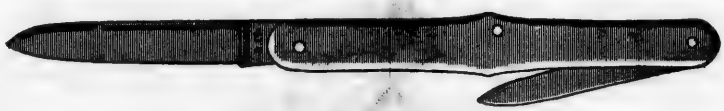
**No. 6282**

No. **6282**—Black Buff Handle, 2 Blades, Brass Lined, German Silver Bolsters.....per doz. $4.60
" **6286**—Ivory Celluloid " 2 " " " " ..... " 4.60



**No. 6566**

No. **6566**—Ivory Celluloid Handle, 2 Blades, Brass Lined, German Silver Bolsters.....per doz. 2.80



**No. 6296**

No. **6296**—Ivory Celluloid Handle, 2 Blades, Brass Lined.....per doz. 3.00



**No. 6896**

No. **6893**—Grey Buff Handle, 2 Blades, Brass Lined, German Silver Bolsters.....per doz. 3.70
" **6896**—Ivory Celluloid " 2 " " " " ..... " 3.50



**No. 6445**

No. **6445**—White Bone Handle, 2 Blades, Brass Lined.....per doz. 3.45

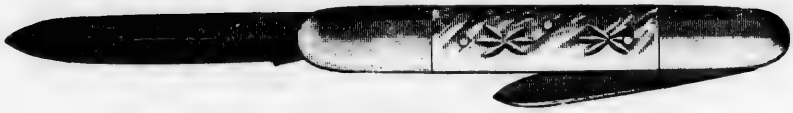


**No. 6453**

No. **6453**—Grey Buff Handle, 2 Blades, Brass Lined.....per doz. 2.60

# EDWARDS' POCKET KNIVES

Full size cuts.



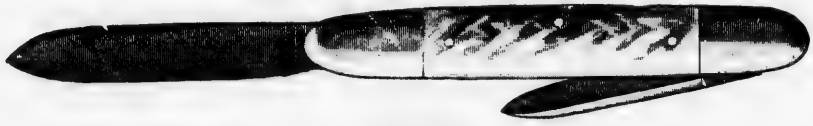
No. 6308

No. **6308**—Pearl Handle, 2 Blades, Brass Lined, German Silver Bolsters .....per doz. $4.70



No. 6533

No. **6533**—Grey Buff Handle, 2 Blades, Brass Lined, German Silver Bolsters .....per doz. 4.50
" **6535**—White Bone " 2 " " " " ..... " 4.30



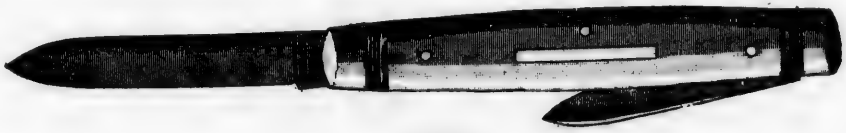
No. 6538

No. **6538**—Pearl Handle, 2 Blades, Brass Lined, German Silver Bolsters.....per doz. 6.20




No. 6675

No. **6675**—White Bone Handle, 2 Blades, Brass Lined, German Silver Bolsters.....per doz. 3.80



No. 6745

No. **6745**—White Bone Handle, 2 Blades, Brass Lined, German Silver Bolsters .....per doz. 4.20

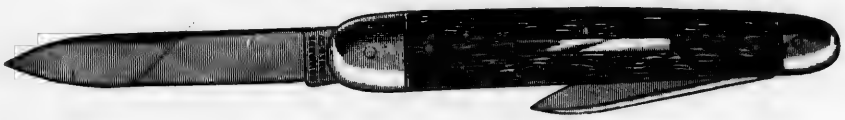


No. 6853

No. **6853**—Grey Buff Handle, 2 Blades, Brass Lined, German Silver Bolsters... .....per doz. 4.40
" **6855**—White Bone " 2 " " " " ..... " 4.20

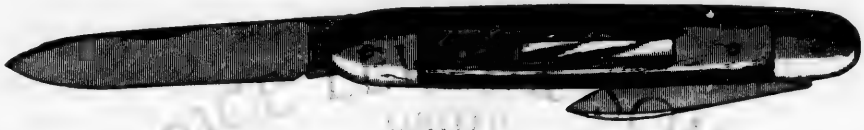
# EDWARDS' POCKET KNIVES

Full size cuts.



**No. 6674**

No. **6674**—Stag Handle, 2 Blades, Brass Lined, German Silver Bolsters ..... per doz. **$4.60**



**No. 7853**

No. **7853**—Grey Buff Handle, 2 Blades, Brass Lined, German Silver Bolsters ..... per doz. 4.40



**No. 6733**

No. **6733**—Grey Buff Handle, 2 Blades, Brass Lined, German Silver Bolsters ..... per doz. 4.70
" **6735**—White Bone " 2 " " " " " ..... " 4.60



**No. 6874**

No. **6873**—Grey Buff Handle, 2 Blades, Brass Lined, German Silver Bolsters ..... per doz. 5.60
" **6874**—Stag " 2 " " " " ..... " 5.00

## THREE-BLADE PENKNIVES

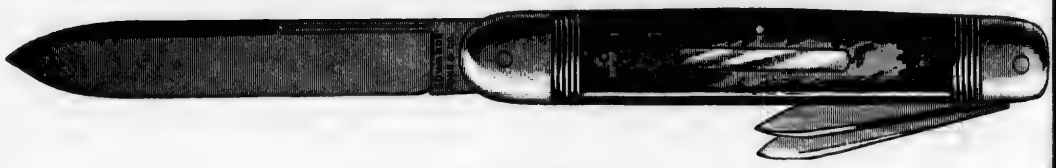


**No. 63735**

No. **63735**—White Bone Handle, 3 Blades, Brass Lined, German Silver Bolsters ..... per doz. 5.40

# EDWARDS' POCKET KNIVES

**Full size cuts.**



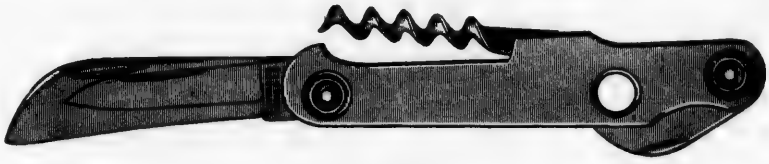
**No. 63873**

No. **63873**—Grey Buff Handle, 3 Blades, Brass Lined, German Silver Bolsters ..... per doz. 6.80



**No. 63874**

No. **63874**—Stag Handle, 3 Blades, Brass Lined, German Silver Bolsters..... per doz. 6 60



**No. 65500**

No. **65500**—German Silver Handle, 2 Blades, Wire Cutter and Cork Screw..... per doz. 6.00



**No. 65516**

No. **65516**—Pearl Handle, 2 Blades and Scissors, Brass Lined..... per doz. 11.00

# EDWARDS' POCKET KNIVES

**Full size cuts.**




**No. 61570**

No. **61570**—Nickeled Metal Handle, 1 Blade, Iron Lined ..... per doz. $0.75
" **61572**—Black Wood Checkered Handle, 1 Blade, Iron Lined ..... " 0.72



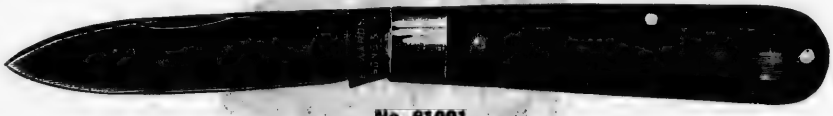
**No. 61512**

No. **61512**—Black Wood Handle, 1 Blade, Iron Lined and Bolster ..... per doz. 1.45



**No. 61522**

No. **61522**—Black Wood Handle, 1 Blade, Iron Lined and Bolster ..... per doz. 1.70



**No. 61001**

No. **61001**—Brown Wood Handle, 1 Blade, Iron Lined and Bolster ..... per doz. 1.30



**No. 61012**

No. **61011**—Rosewood Handle, 1 Blade, Iron Lined and Bolster ..... per doz. 1.45
" **61012**—Ebony " 1 " " " ..... " 1.45



**No. 61022**

No. **61021**—Rosewood Handle, 1 Blade, Iron Lined and Bolster ..... per doz. 1.90
" **61022**—Ebony " 1 " " " ..... " 1.90

# EDWARDS' POCKET KNIVES

Full size cuts.



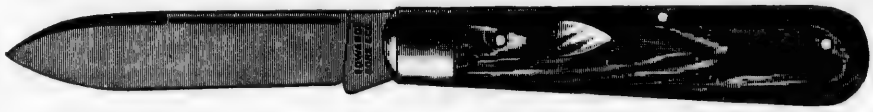
**No. 61032**

No. **61031**—Rosewood Handle, 1 Blade, Iron Lined and Bolster ..... per doz. $2.25
" **61032**—Ebony " 1 " " " ..... " 2.25




**No. 61581**

No. **61581**—Rosewood Handle, 1 Blade, Iron Lined and Bolster ..... per doz. 2.40



**No. 61161**

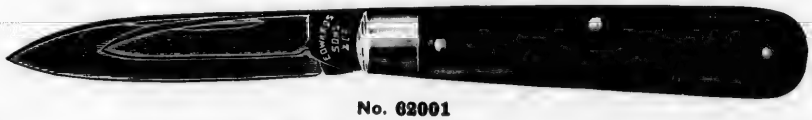
No. **61161**—Cocoa Handle, 1 Blade, Brass Lined, German Silver Bolster ..... per doz. 2.20



**No. 61151**

No. **61151**—Rosewood Handle, 1 Blade, Brass Lined, German Silver Bolster ..... per doz. 2.30

## TWO-BLADE POCKET KNIVES



**No. 62001**

No. **62001**—Brown Wood Handle, 2 Blades, Iron Lined and Bolster ..... per doz. 1.90

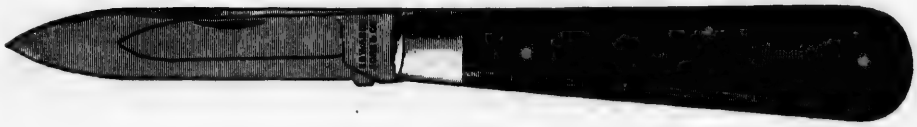


**No. 62012**

No. **62012**—Ebony Handle, 2 Blades, Iron Lined and Bolster ..... per doz. 2.20

# EDWARDS' POCKET KNIVES

**Full size cuts.**



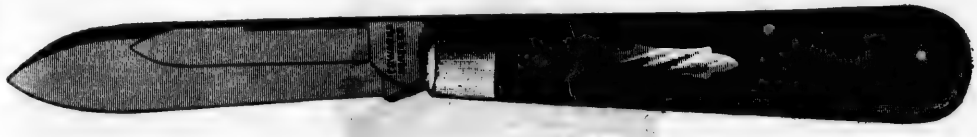
**No. 62562**

No. **62562**—Ebony Handle, 2 Blades, Iron Lined and Bolster ..... per doz. **$2.40**



**No. 62021**

No. **62021**—Rosewood Handle, 2 Blades, Iron Lined and Bolster ..... per doz. 2.55
" **61022**—Ebony " 2 " " " ..... " 2.55



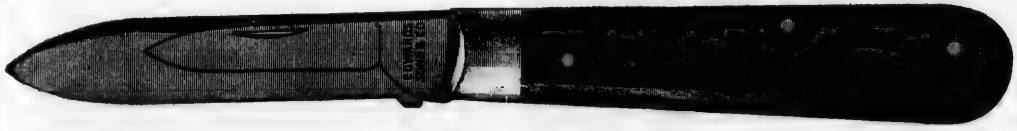
**No. 62542**

No. **62542**—Ebony Handle, 2 Blades, Iron Lined and Bolster ..... per doz. 2.70



**No. 62032**

No. **62031**—Rosewood Handle, 2 Blades, Iron Lined and Bolster ..... per doz. 3.10
" **62032**—Ebony " 2 " " " ..... " 3.10



**No. 62192**

No. **62191**—Rosewood Handle, 2 Blades, Iron Lined and Bolster ..... per doz. 3.00
" **62192**—Ebony " 2 " " " ..... " 3.00

# EDWARDS' POCKET KNIVES

**Full size cuts.**



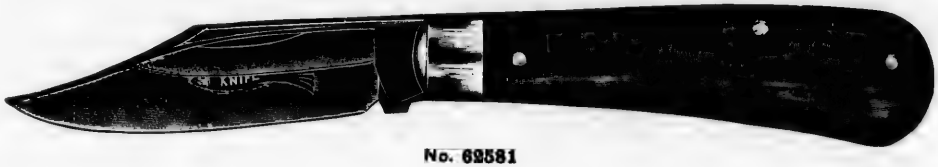
**No. 62852**

**No. 62852**—Ebony Handle, 2 Blades, Iron Lined and Bolster ..... per doz. $3.55



**No. 62151**

**No. 62151**—Rosewood Handle, 2 Blades, Brass Lined, German Silver Bolster ..... per doz. 3.25



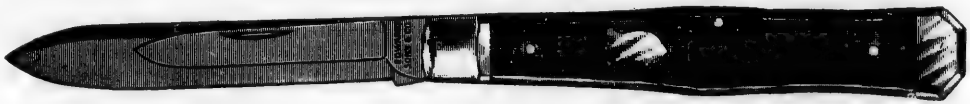
**No. 62581**

**No. 62581**—Rosewood Handle, 2 Blades, Iron Lined and Bolster ..... per doz. 3.50



**No. 62171**

**No. 62171**—Rosewood Handle, 2 Blades, Brass Lined, German Silver Bolsters ..... per doz. 4.70



**No. 62181**

**No. 62181**—Rosewood Handle, 2 Blades, Brass Lined, German Silver Bolsters ..... per doz. 4.80

per doz. $3.55

per doz. 3.25

per doz. 3.50

per doz. 4.70

per doz. 4.80

# SHACKLE KNIVES




No. 91872 No. 91854

Two-Thirds size cuts.

## TURNER'S SHACKLE KNIVES

No. **91872**—4½ inch, Buff Handle, 1 Blade, Iron Lined and Bolster.....per doz. $6.10

" **91854**—4½ inch, Stag Handle, 1 Blade, Iron Lined and Bolster.....per doz. 8.75

" **91864**—4½ inch, Stag Handle, 1 Clip Blade, pattern as No. 91854.....per doz. 8.75

## BOKER'S SHACKLE KNIVES

No. **01602**—4½ inch, Ebony Handle, 1 Blade, "King Cutter" Quality, Iron Lined and Bolster.....per doz. 9.85

## WOSTENHOLM'S SHACKLE KNIVES

No. **51772**—4½ inch, Buff Handle, 1 Blade, Iron Lined and Bolster.....per doz. 8.60

" **51774**—4½ inch, Stag Handle, 1 Blade, Iron Lined and Bolster.....per doz. 9.30




No. 01602 No. 51772

Full size cuts.

# SPRING BACK KNIVES



Nos. 51784 52804 91884

Full size cuts. Two-thirds size cut of 4½ inch.

## TURNER'S SPRING BACK KNIVES

### ONE-BLADE

Stag Handle, Iron Lined and Bolster.

| | | | | |
|---|---|---|---|---|
| Length ..... | 4½ | 5½ | 6½ | inch. |
| No. **91884**.....per doz. | $9.45 | 14.15. | 18.50 | |

## WOSTENHOLM'S SPRING BACK KNIVES

### ONE-BLADE

No. **51784**—5 inch, Stag Handle, 1 Spear Blade, Iron Lined and Bolster, pattern as No. 52804.....per doz. $12.50

" **51794**—4½ inch, Stag Handle, 1 Clip Blade, Iron Lined and Bolster..per doz. 10.75

### TWO-BLADE

No. **52804**—4½ inch, Stag Handle, 2 Blades, Iron Lined and Bolster .....per doz. 15.00

# BOKER'S SPRING BACK KNIVES

Full size cuts.



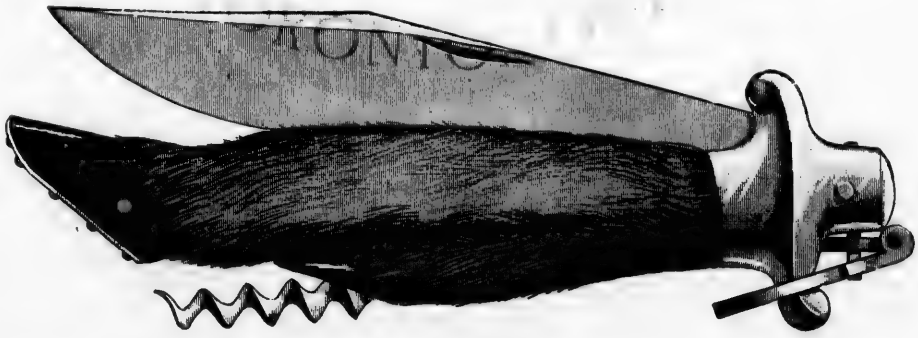
No. 85674

No. **85674**—5¼ inch, Stag Handle, 1 Blade, "King Cutter" quality, Spring Back, Brass Lined, German Silver Flush Bolster.....per doz. $17.75




No. 85664

No. **85664**—5¼ inch, Stag Handle, 1 Blade, "King Cutter" quality, Spring Back, Brass Lined, German Silver Cross Bolster.....per doz. 19.10



No. 85654

No. **85654**—5¼ inch, Deer Foot Handle, 1 Blade, Spring Back and Cork Screw, Brass Lined, German Silver Bolster.....per doz. 35.70

# TURNER'S SHEATH KNIVES




**No. 962**

No. **962**—Ebony Handle, Brass Rivets, 6 inch Blade, with Leather Sheath ..... per doz. $8.75

" **961**—Rosewood Handle, 3 Large Brass Rivets, 6 inch Blade (Blade same pattern as No. 972), with Leather Sheath ..... per doz. 9.65




**No. 972**

No. **972**—Ebony Handle, Brass Rivets, 6 inch Blade, with Leather Sheath ..... per doz. 9 35



**No. 994**

No. **994**—Stag Handle, 6 inch Blade, with Leather Sheath ..... per doz. 21.00

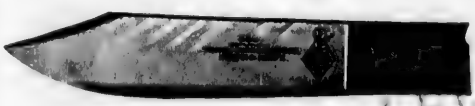


**Style of Sheath for above Knives, Blocked to receive the Handle.**

# TURNER'S HUNTING KNIVES AND DAGGERS



No. 952



Blade for No. 952, full length 8¼ inches.



Sheath for No. 952, full length 7¾ inches.

No. 952—Turner's Triplicate Hunting Knife, Scored Ebony Handle, Full Length 11 inches, with Small Blade, Cork Screw, Turn Screw, Picker and Tweezers, supplied with 2 extra large Blades in case of breakage.....each $13.50

## DAGGERS




No. 934

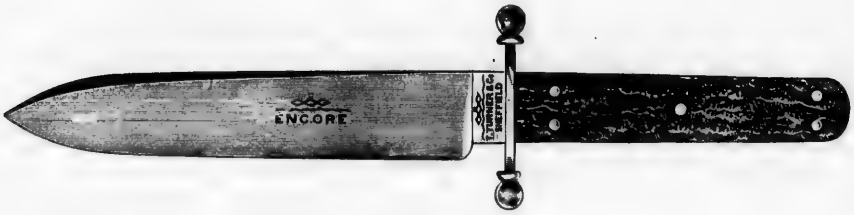
No. 934—Stag Handle, 6 inch Blade, with Leather Sheath.....per doz. 14.00




No. 904

| | | | | | |
|---|---|---|---|---|---|
| Length of Blade..... | 5 | 6 | 7 | 8 | inch. |
| " Handle..... | 4¼ | 4¼ | 4¼ | 4¼ | " |
| No. 904—Stag Handle (full), with Leather Sheath .....per doz. | $14.00 | 15.00 | 17.50 | 21.00 | |

# TURNER'S DAGGERS



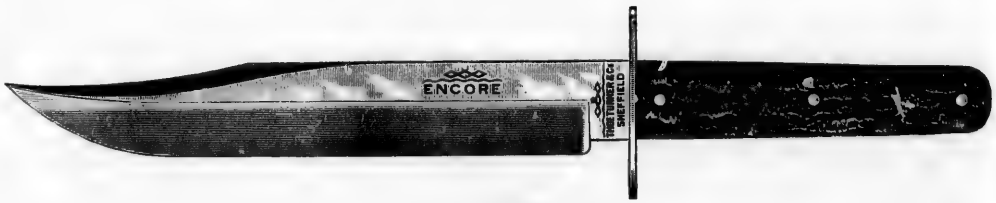

**No. 914**

| | | | | | |
|---|---|---|---|---|---|
| Length of Blade | 5 | 6 | 7 | 8 | inch. |
| " Handle | 4⅛ | 4¼ | 4¼ | 4½ | " |
| **No. 914**—Stag Handle, with Leather Sheath.....per doz. | $14.75 | 16.25 | 19.00 | 22.50 | |

**No. 924**

With Clip Blade, pattern same as No. 914.

| | | | | | |
|---|---|---|---|---|---|
| Length of Blade | 5 | 6 | 7 | 8 | inch. |
| " Handle | 4⅛ | 4¼ | 4¼ | 4½ | " |
| **No. 924**—Stag Handle, with Leather Sheath.....per doz. | $14.75 | 16.25 | 19.00 | 22.50 | |




**No. 944**

| | | | | |
|---|---|---|---|---|
| Length of Blade | 6 | 7 | 8 | inch. |
| " Handle | 4¾ | 4¾ | 4¾ | " |
| **No. 944**—Stag Handle (full), with Leather Sheath.....per doz. | $18.25 | 20.00 | 25.00 | |



Style of Sheath with Knives Nos. 904, 914, 934 and 944.

# BUDDING AND PRUNING KNIVES




**Nos. 91832** **51842** **91804** **91814** **91821** **51824**

Two-thirds size cut. Full size cut. Two-thirds size cuts. Full size cut.

| | | | | | |
|---|---|---|---|---|---|
| No. **91832**—Turner's Budding Knife, | 4⅛ inch, | Buff | Handle, | Brass Lined | per doz. $13.50 |
| " **51842**—Wostenholm's " " | 4⅞ " | " | " | " | " 8.50 |
| " **91804**—Turner's Pruning Knife, | 3½ " | Stag | " | " | " 5.50 |
| " **91814**— " " " | 4 " | " | " | " | " 7.50 |
| " **91821**— " " " | 4⅜ " | Beech | " | " | " 8.50 |
| " **51824**—Wostenholm's " " | 4½ " | Stag | " | " | " 12.96 |

# FLEAMES AND FARRIERS' KNIVES




**No. 35023**
Full size cut.



**No. 534**
Two-thirds size cut.

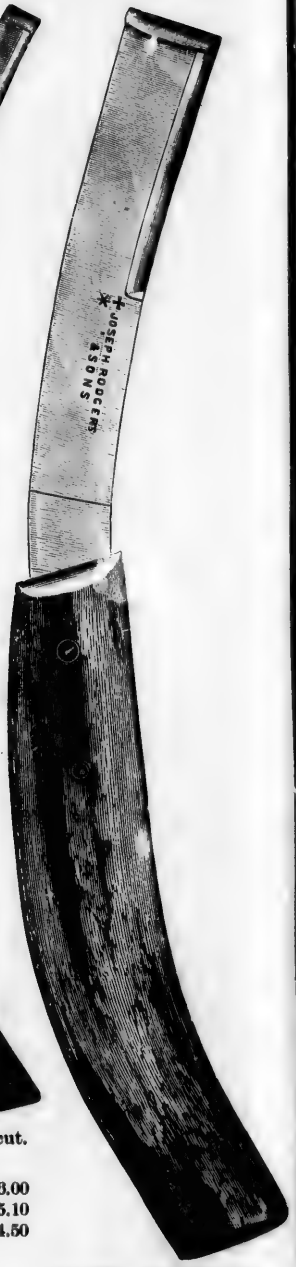
## RODGERS' HORSE FLEAMS

### THREE-BLADE

No. **35000**—3½ in., Brass Handle.....per doz. $ 7.00
" **35023**—3½ " Buff " Brass Lined, " 15.20




**No. 224.** Full size cut.




## SEARCHERS

No. **224**—Rodgers' Searchers, Buck Horn Handle.....per doz. $6.00
" **524**—Wostenholm's " " " ..... " 5.10
" **824**—Grady & Co.'s " " " ..... " 4.50

## FARRIERS' KNIVES

**No. 234.** Full size cut

No. **234**—Rodgers' Farriers' Knives, Buck Horn Handles, Blades assorted ⅜ to ⅞ inch wide.....per doz. $6.00
" **534**—Wostenholm's " " " " ⅜ and ¾ " " ..... " 5.10
" **834**—Grady & Co.'s " " " " ⅜ " ¾ " " ..... " 4.50

# POCKET KNIFE PURSES

## GREY CHAMOIS

| | | | | | |
|---|---|---|---|---|---|
| Length | 2¾ | 3⅛ | 3½ | 4 | 4¼ inch. |
| No. **7891**—With Nickel-Plated Clasp.....per doz. | $1.75 | 1.85 | 2.00 | 2.15 | 2.25 |

## KID

| | | | | |
|---|---|---|---|---|
| Length | 3⅛ | 3½ | 4 | inch. |
| No. **7853**—With Nickel-Plated Clasp.....per doz. | $2.65 | 2.65 | 2.65 | |

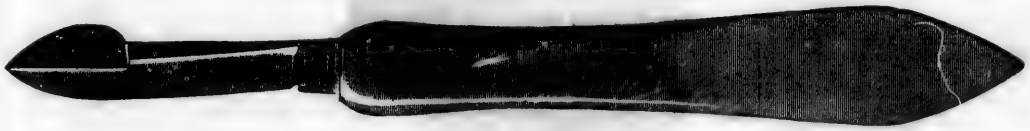
## ERASERS

**With Sheaths.**



**No. 521**

| | | |
|---|---|---|
| No. **521**—Wostenholm's, 4 inch, Cocoa Handle.....per doz. | | 3.00 |
| " **221**—Rodger's 5 " " Pattern as No. 521..... | " | 5.25 |
| " **232**— " 5 " " " " 521 with Metal Shoulder..... | " | 5.85 |



**No. 541**

| | | |
|---|---|---|
| No. **541**—Wostenholm's, 4½ inch, Cocoa Handle.....per doz. | | 6.00 |



**No. 532**

| | | |
|---|---|---|
| No. **532**—Wostenholm's, 4 inch, Ebony Handle.....per doz. | | 6.20 |
| " **201**—Rodger's 3¾ " Cocoa " Pattern as No. 532..... | " | 7.00 |
| " **202**— " 3¾ " Ebony " " " 532..... | " | 7.00 |

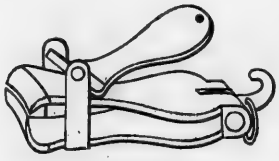
# NAIL NIPPERS

Full size cuts.



No. 353

| | | | |
|---|---|---|---|
| No. **397**—4⅛ inch, Steel Polished, Pattern as No. 353 | per doz. | $ 5.60 |
| " **353**—3¾ " All Steel, Full Polished, extra quality | " | 23.00 |
| " **189**—3¾ " Steel, Fancy Pattern, Nickel-Plated | " | 28.00 |
| " **150**—4 " " Polished, Angle Cutting | " | 35.50 |



No. 7102



No. 2580

| | | |
|---|---|---|
| No. **7102**—Steel, Nickel-Plated, Face Cutting | per doz. | 5.05 |
| " **3229**— " " Side " length 2½ inches | " | 23.50 |
| " **2580**— " " Face " | " | 8.50 |

# NAIL FILES

Full size cuts.



No. 7520

| | | |
|---|---|---|
| No. **5520**—Polished Steel, Length over all 3¼ inches | per doz. | 5.20 |
| " **7520**— " " 4 " | " | 5.20 |
| " **6520**— " " 4 " Knife as No. 4520 | " | 5.20 |
| " **6893**—Folding, 2¼ inch, German Silver Handle, 2 inch Nail Blade | " | 9.90 |



No. 1520

No. **1520**—Polished Steel ..... per doz 3.50



No. 2520

No. **2520**—Polished Steel, Length over all 4 inches ..... per doz. 3.50

# TWEEZERS



**No. 508**

No. **508**—Polished Steel Tweezers and Ear Spoon, Length over all 2 inches ..... per doz. $2.95
" **7453**— " " " Nail File, " " 3 " ..... " 3.35



**No. 3521.** Full size cut.

No. **3521**—Polished Steel ..... per doz. 5.20



**No. 6555.** Full size cut.

No. **6555**—Polished Steel ..... per doz. 7.40



**No. 935.** Full size cut.

No **935**—Polished Steel ..... per doz. 13.85

## WORK BOX SETS

On Cards. English Make.



Pattern Nos. **40** and **41** | **42** and **43** | **44** | **STILETTO**

Four pieces, Button Hook, Tweezers, Nail File and Stiletto.

No. **40**—Bone Handle, Length over all 3½ inches ..... per doz. sets 10.80
" **41**—Pearl " " " 3½ " ..... " 18.45
" **42**— " " " " 4 " ..... " 22.50
" **43**— " " " " 4 " Extra Quality ..... " 29.70
" **44**— " " " " 4½ " ..... " 34.20

# WILLIAMS' SHAVING SOAP




No. **1**—Barbers' Bar, 1 lb. packages, 6 cakes to the package ..... per package $0.70




No. **2**




No. **3**



No. **5**

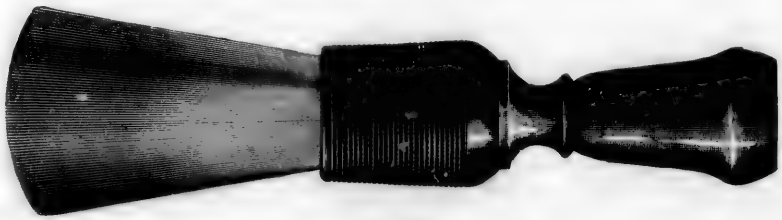
No. **2**—Luxury Shaving Tablets, in round form to fit the cup ..... per doz. 5.00
" **3**—Yankee Shaving Soap, in square cakes ..... " 2.40
" **4**—Barbers' Favorite Soap, " " ..... " 1.60
" **5**—Shaving Stick, in case (covered with Red Morocco Leatherette) ..... " 4.50

## SHAVING BRUSHES



Nos. **100** and **105**

No. **100**—White Bristles, Black Enameled Wood Handles ..... per doz. 1.10
" **105**— " " " ..... " 1.40



No. **532**

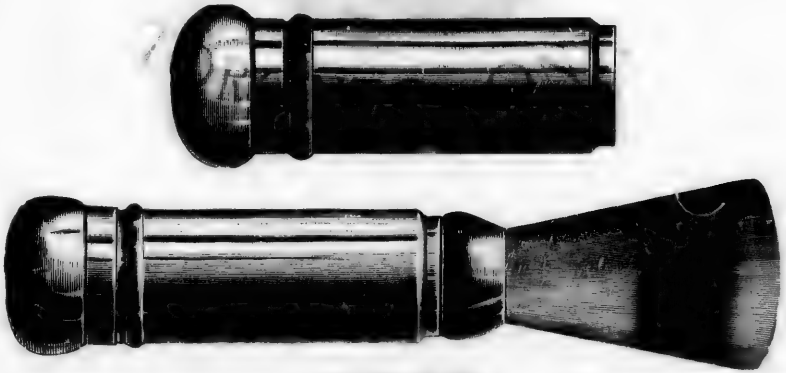
No. **532**—White Bristles, Twine Bound, Brown Wood Handles ..... per doz. 3.00

# SHAVING BRUSHES



Nos. 53 72 629 628 6937

| | | | |
|---|---|---|---|
| No. | 53—White Bristle, Ebony Handle, Deep Nickel-Plated Ferrule | per doz. | $3.00 |
| " | 72-4— " Nickel-Plated Handle | " | 3.50 |
| " | 72-6— " " " | " | 4.70 |
| " | 629—Badger Hair, Ebony Handle, Deep Nickel-Plated Ferrule | " | 3.60 |
| " | 628— " Brown Wood Handle, Deep White Bone Ferrule | " | 5.00 |
| " | 6937—All Badger Hair, Turned White Bone Handle with Grooved Collar | " | 18.00 |
| " | 6936— " " same as No. 6937, but without Collar on Handle | " | 16.00 |



Nos. 625 and 535

| | | | |
|---|---|---|---|
| No. | 625—Badger Hair, Nickel-Plated Handle with Screw Cap | per doz. | 6.00 |
| " | 535—White Bristle, " " " | " | 3.60 |

Nos. 625 and 535 are Detachable, can be enclosed in Handle.

# RAZOR STROPS




No. 1

No. **1**—**Howard**, 14 inch, Extra Heavy Fine Leather, with Fine Hone and Patent Handle.....per doz. $8.50




No. 3

No. **3**—**Currier**, 13½ inch, made from Heavy Leather .....per doz. 5.70




No. 4

No. **4**—**Faultless**, 13½ inch, Large Strop, made from Medium Grade Stock .....per doz. 4.30




No. 88

No. **88**—**Blue Label**, 14 inch, Fine Four-Side Cushion Combination, with 1½ inch Nickel Ferrule .....per doz. 9.30




No. 255

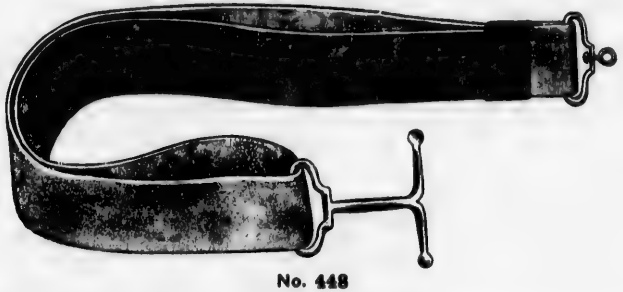
No. **255**—13 inch, Fine Double-Padded Cushion, with Extra Heavy Nickel Wire Frame.....per doz. 9.30




No. 210

No. **210**—**Phœnix**, 11½ inch, three sides Leather and one side Hone.....per doz. 2.20

# RAZOR STROPS



No. 448

No. **448**—Double Swing, 17 x 2 in., Black Leather and Canvas, with Swivel ..... per doz. $6.30
" **548**— " 24½ x 2 " " " " and Black Enameled Handle. " 8.00

One in a box.

ICE LEWIS & SON LIMITED



Nos. 171 and 174

No. **171**—Double Swing, 17 x 2 inch, Oiled Leather and Canvas ..... per doz. 5.50
" **174**— " 17 x 2 " White " " ..... " 5.50



Nos. 122 and 124

No. **122**—Double Swing, 21 x 2 inch, White Leather and Canvas, with Swivel ..... per doz. 6.00
" **124**— " 21 x 2 " Oiled " " " ..... " 6.00

## THE ORIGINAL HORSE-TAIL RAZOR STROPS




Nos. 1 to 2

TORONTO ONT.

No. **1** —15 x 1½ inch, with Nickeled Eyelet ..... per doz. 2.90
" **1½**—17 x 2 " " " ..... " 4.50
" **2** —21 x 2 " " " ..... " 5.50




No. 3

No. **3**—21 x 2 inch, with Swivel ..... per doz. 7.00



No. 4

No. **4**—17 x 2 inch, with Swivel ..... per doz. 5.00

# RAZOR STROPS

**KAMPFE'S**



**No. 20**

**No. 20**—New Improved Diagonal Star Safety Razor Strop, Leather ..... per doz. $18.00



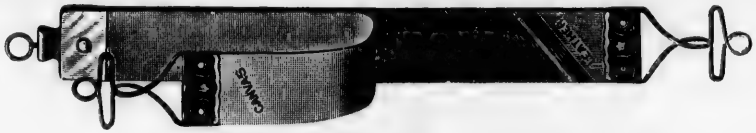

**No. 21**

**No. 21**—New Improved Star Safety Razor Swing Strop, Canvas ..... per doz. 10.00



**No. 22**

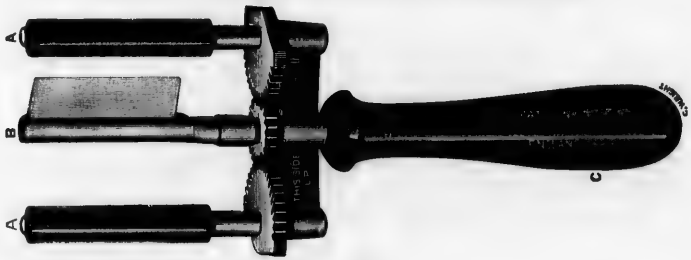
**No. 22**—New Improved Diagonal Razor Strop, adopted for the old style Razor, Leather..... per doz. 18.00



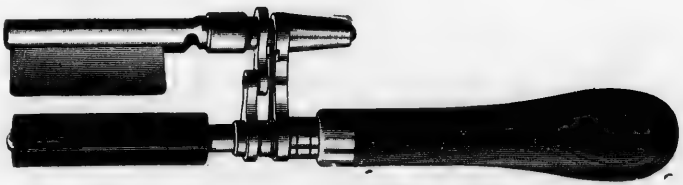

**No. 23**

**No. 23**—New Improved Diagonal Combination Razor Strop, for Barbers' use..... per doz. 36.00

## SAFETY RAZOR STROPPING MACHINES




**No. 30**

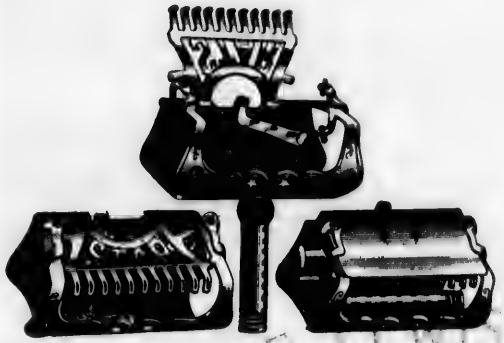


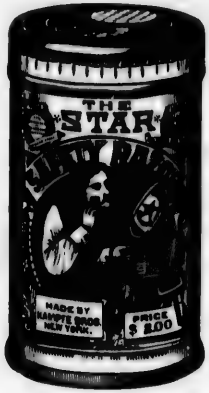
**No. 31**

**No. 30**—Double Roll Stropping Machines ..... per doz. 48.00
" **31**—Single Roll " " ..... " 32.00

A Flexible Canvas or Leather Strop should be used with these Machines.

# STAR SAFETY RAZORS

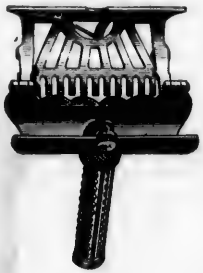





Star Safety Razors, in tin case ..... per doz. $33.50
Extra Star Safety Razor Blades ..... " 22.75
Boker's extra Blades, suitable for either Star or Gem Safety Razors ..... " 15.00

## GEM SAFETY RAZORS





Gem Safety Razors, in tin case ..... per doz. 33.50
Extra Gem Safety Razor Blades ..... " 22.75

In the Gem Safety Razors the frame or body can be cleaned during the process of shaving, without removing the blade.

DIRECTIONS.—For using the Star or Gem Safety Razors, lather the face well, apply the Safety Razor at the same angle as the old style of Razor, and draw it across the face with a firm stroke. After shaving, cleanse the frame and blade, wipe both thoroughly dry; take the blade, insert it in the holder provided for the purpose, and strop as usual; return the blade to the frame, keeping the star side up, and the instrument is ready for use.

## CORN RAZORS



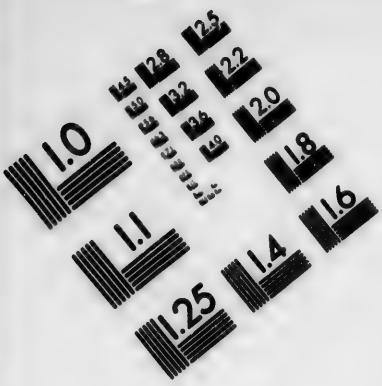

**No. 472.** Two-third size cut.

No. **472**—½ inch wide, Ivory Handle ..... per doz. $10.50




**No. 372.** Full size cut.

No. **372**—⅜ inch wide, Black Rubber Handle ..... per doz. 8.30



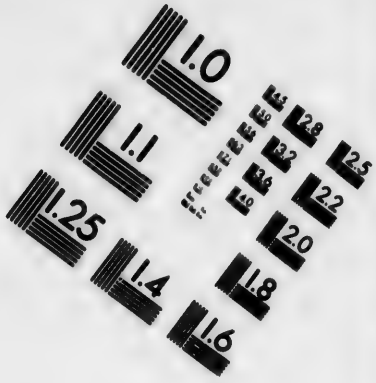
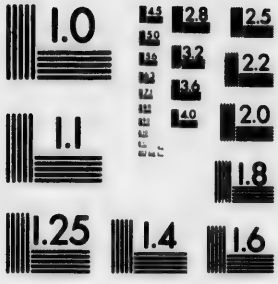
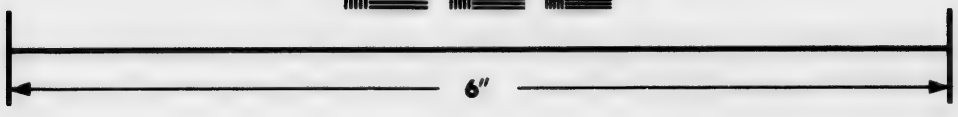




**IMAGE EVALUATION**
**TEST TARGET (MT-3)**










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23 WEST MAIN STREET
WEBSTER, N.Y. 14580
(716) 872-4503

# HENRY BOKER & CO.'S

TRADE MARK

## CELEBRATED TREE BRAND RAZORS

**Manufactured from Finest English Crucible Cast Steel.**



**No. 102**

No. **102**—⅞ inch Wide, Square Point, Hollow Ground, Black Rubber Handle..... .....per doz. $7.95



**No. 122**

No. **122**—⅞ inch Wide, Hollow Point, Fine Hollow Ground, Black Rubber Handle, Etched in Black, per doz. 10.35




**No. 132**

No. **132**—⅞ inch Wide, Square Point, Concaved Magnetic Blade, Black Rubber Handle, Etched in Black, per doz.... ..... 11.15



**No. 152**

No. **152**—⅞ inch Wide, Hollow Point, Well Concaved, Black Rubber Handle, Etched in Black.....per doz. 13.05
" **152**—1 " " " " " " " " " ..... " 13.05



**No. 172**

No. **172**—⅞ inch Wide, Square Point, Fine Concaved, Extra Hollow Ground, Black Rubber Handle, Etched in Black.....per doz. 15.20

# BOKER'S RAZORS



No. 182

No. **182**—⅛ inch wide, Square Point, Extra Hollow Ground, Reinforced, Mirror Polished in Hollow, Black Rubber Handle, Fancy Carved, Etched in Black ..... per doz. $15.65



No. 183

No. **183**—⅛ inch wide, Square Point, Extra Hollow Ground, Reinforced, Mirror Polished in Hollow, Silver Grey Celluloid Handle, Etched in Black ..... per doz. 15.75



No. 206

No. **206**—⅛ inch wide, Square Point, Concaved, Mirror Polished in Hollow, Fancy Back of Tang, Ivory Celluloid Handle, Fancy Carved ..... per doz. 15.90



No. 216

No. **216**—⅛ inch wide, Square Point, Fancy Blade and Tang, Ivory Celluloid Handle, Etched Black .. per doz. 16.95
" **216**—¼ " " " " " " " " " " " " 16.95



No. 222

No. **222**—⅛ inch wide, Square Point, Full Concaved, Black Rubber Handle ..... per doz. 17.15
" **222**—¼ " " " " " " ..... per doz. 17.15



No. 232

No. **232**—⅛ inch wide, Square Point, Fine Concaved, Mirror Polished in Hollow, Fancy Tang, Fancy Carved Black Rubber Handle ..... per doz. 17.15

# BOKER'S RAZORS



No. 244

No. **244**—⅞ inch wide, Square Point, Fine Concaved, Reinforced, Mirror Polished in Hollow, Fancy Tang, Stag Handle, Etched in Gold.....per doz. $17.35



No. 250

No. **250**—⅞ inch wide, Square Point, Concaved, Reinforced, Mirror Polished in Hollow, Fancy Tang, Fancy Aluminum Handle, Etched in Gold .....per doz. 17.40



No. 262

No. **262**—⅞ inch wide, Sheep Toe Point, Fine Concaved, Fancy Tang, Black Rubber Handle, Etched in Gold.....per doz. 17.00

" **262**—⅞ inch wide, Sheep Toe Point, Fine Concaved, Fancy Tang, Black Rubber Handle, Etched in Gold .....per doz. 17.00



No. 272

No. **272**—⅞ inch wide, Square Point, Fine Concaved, Reinforced, Mirror Polished in Hollow, Fancy Tang, Black Rubber Handle, Etched Black.....per doz. 17.85

" **276**—⅞ inch wide, as No. 272 but with Ivory Celluloid Handle..... " 19.65



No. 282

No. **282**—⅞ inch wide, Square Point, Full Concaved, Reinforced, Black Rubber Handle .....per doz. 18.05

" **282**—1 " " " " " " " " " " 18.05



No. 290

No. **290**—⅞ inch wide, Square Point, Concaved, Reinforced, Mirror Polished in Hollow, Fancy Blade, with Fancy Red Brown Handle, Etched in Gold .....per doz. 18.05

# BOKER'S RAZORS



**No. 306**

No. **306**—⅛ inch wide, Sheep Toe Point, Fine Concaved, Mirror Polished in Hollow, Fancy Carved Ivory Culluloid Handle, Etched in Gold ..... per doz. $18.65



**No. 316**

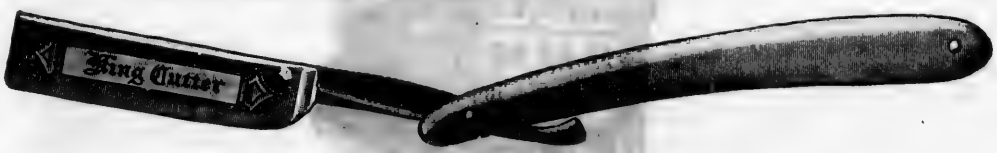
No. **316**—⅛ inch wide, Square Point, Fine Concaved, Reinforced, Mirror Polished in Hollow, Fancy Tang, Inlaid Ivory Celluloid Handle, Etched in Gold ..... per doz. 21.05




**No. 322**

No. **322**—⅛ inch wide, Square Point, "King Cutter," Full Concaved, Reinforced, Full Polished in Hollow, Fancy Tang, Black Rubber Handle, Etched in Gold ..... per doz. 21.70

" **322**—¼ inch wide, Square Point, "King Cutter," Full Concaved, Reinforced, Full Polished in Hollow, Fancy Tang, Black Rubber Handle, Etched in Gold ..... per doz. 21.70




**No. 326**

No. **326**—⅛ inch wide, Square Point, "King Cutter," Full Concaved, Reinforced, Full Polished in Hollow, Fancy Tang, Ivory Celluloid Handle, Etched in Gold ..... per doz. 23.60

" **326**—¼ inch wide, Square Point, "King Cutter," Full Concaved, Reinforced, Full Polished in Hollow, Fancy Tang, Ivory Celluloid Handle, Etched in Gold ..... per doz. 23.60




**No. 332**

No. **332**—⅛ inch wide, Square Point, Fine Concaved, Reinforced, Polished in Hollow, with Genuine Mother of Pearl Tang, Black Rubber Handle, Etched in Black ..... per doz. 35.90



**No. 342**

No. **342**—⅛ inch wide, Sheep Toe Point, Half Concaved, Black Rubber Handle ..... per doz. 9.85

" **352**—⅛ " " " Full " " " " ..... " 16.80

" **362**—⅛ " " " " " Mirror Polished in Hollow, Black Rubber Handle " 18.15

# WADE AND BUTCHER RAZORS



No. 462

No. **462**—⅞ inch wide, Square Point, Concaved, Black Rubber Handle ..... per doz. $11.90



No. 412

No. **412**—⅞ inch wide, Square Point, Black Rubber Handle, Etched in Gilt ..... per doz. 13.65
" **412**—⅞ " " " " " " " ..... ..... " 15.05



No. 422

No. **422**—⅞ inch wide, Special, Hollow Point, Black Rubber Handle, Etched in Black ..... ....per doz. 14.20



No. 432

No. **432**—⅞ inch wide, Special, Square Point, Black Rubber Handle, Etched in Black ..... per doz. 15.25
" **432**—⅞ " " " " " " " " ..... " 15.25
" **432**—⅞ " " " " " " " " ..... " 15.95
" **442**—⅞ " " Round Point, " " " " ..... " 15.25
" **442**—⅞ " " " " " " " " ..... .. " 15.95



No. 467

No. **467**—⅞ inch wide, Square Point, Concaved, Ivory Handle ..... per doz. 27.45

## GEORGE WOSTENHOLM & SON'S RAZORS

No. **502**—⅞ inch wide, Pipe Razor, Square Point, Hollow Ground, Black Handle ..... per doz. 7.80

# TURNER'S RAZORS

**Two-third size cuts.**




**No. 906**

No. **906**—$\frac{7}{8}$ inch wide, Square Point, Concaved, Ivory Celluloid Handle.....per doz. $14.20
" **916**—$\frac{7}{8}$ " Sheep Toe " " " " " " 14.20



**No. 922**

No. **922**—$\frac{7}{8}$ inch wide, Square Point, Hollow Ground, Black Rubber Handle.....per doz. 16.20
" **932**—$\frac{7}{8}$ " Sheep Toe Point, " " " " " " 16.20



**No. 942**

No. **942**—$\frac{7}{8}$ in. wide, Square Point, Extra Hollow Ground, Black Rubber Handle, Etched in Black..per doz. 16.90




**No. 952**

No. **952**—$\frac{7}{8}$ in. wide, Square Point, Extra Hollow Ground, Black Rubber Handle, Etched in Black..per doz. 19.60



**No. 962**

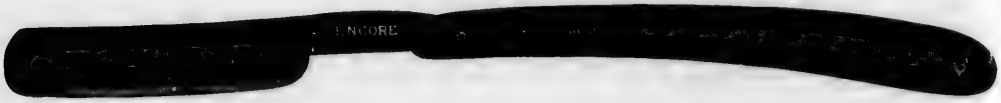
No. **962**—$\frac{7}{8}$ inch wide, Square Point, Hollow Ground, Black Handle, Etched in Black.....per doz. 15.50



**No. 972**

No. **972**—$\frac{7}{8}$ in. wide, Square Point, Extra Hollow Ground, Black Rubber Handle, Etched in Black..per doz. 16.90
" **972**—$\frac{7}{8}$ " " " " " " " " " " " " 16.90

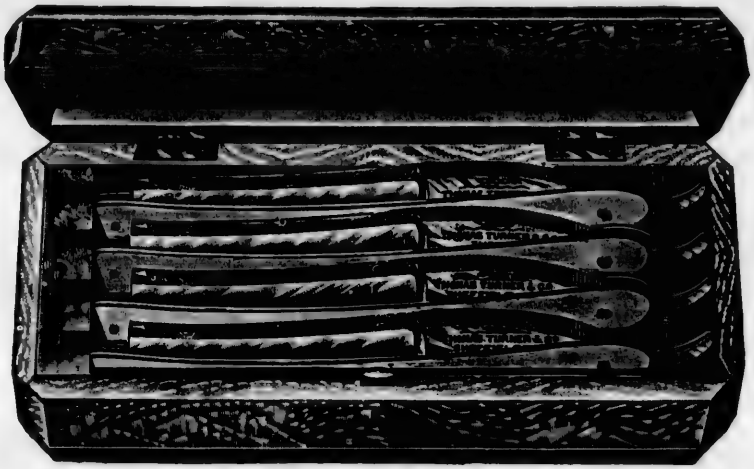
# TURNER'S RAZORS




**No. 982, THE ENCORE RAZOR**

No. **982**—$\frac{7}{8}$ inch wide, Square Point, Concaved, Black Handle.....per doz. $22.70
" **992**—$\frac{7}{8}$ " Round " " " ..... " 22.70

## RAZORS IN CASES



Showing Case with 4 Razors.

### RAZORS IN CASES

| Case with | 3 | 4 | 7 | Razors. |
|---|---|---|---|---|
| No. **139**—Natural Polished Oak.....per case | $8.45 | 10.80 | 17.55 | |
| " **140**—Mahogany, Finished..... | 9.55 | 12.15 | 18.60 | |
| " **141**—Pollard Oak, Finished..... | 10.00 | 12.85 | 18.90 | |

The above cases have Turner's Extra Hollow Ground Razors, $\frac{8}{8}$ inch, "Ivorygrain" Handle.

### RAZOR CASES ONLY

| Case for | 2 | 3 | 4 | 7 | Razors. |
|---|---|---|---|---|---|
| No. **129**—Natural Polished Oak.....each | $2.05 | 2.40 | 2.70 | 3.40 | |
| " **130**—Mahogany, Finished..... | 2.90 | 3.55 | 4.05 | 4.40 | |
| " **131**—Pollard Oak, Finished..... | 3.05 | 3.90 | 4.25 | 4.75 | |



No. 3752



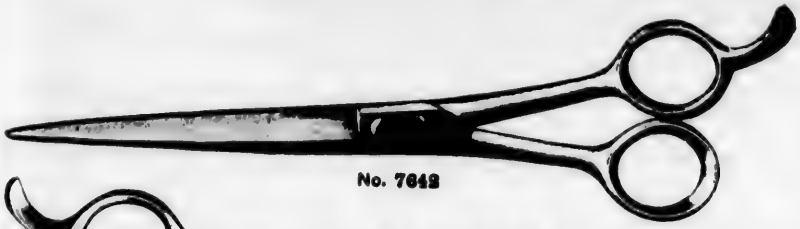
No. 3751

No. **3752**—Cedar, Highly Polished and Finished, Plush Lined, Hinged Cover, for 2 Razors.....per doz. $12.00
" **3751**—Beech, Oil Finished, Plush Lined, Slide Cover, for 1 Razor..... " 3.00

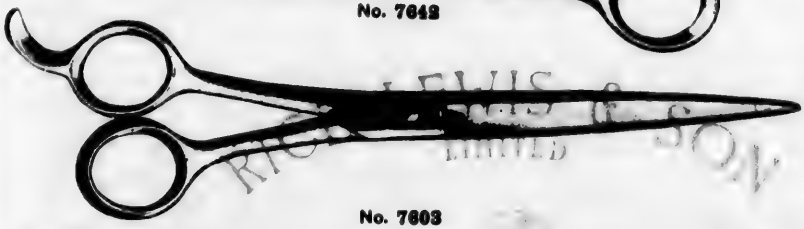
# HENRY BOKER & CO.'S

TRADE MARK

## TREE BRAND BARBERS' SCISSORS



No. 7642



No. 7603

| | | | |
|---|---|---|---|
| Length | | | 8 inch. |
| No. 7642—Japanned Handle | per doz. | | $12.60 |
| " 7643—Nickel-Plated Handles | " | | 15.00 |
| " 7603— " " with Patent Tension Screw which gives an even pressure to both blades in cutting | per doz. | | 16.00 |

## HENRY SEYMOUR CUTLERY CO'S.

### BARBERS' SCISSORS



| | | | | |
|---|---|---|---|---|
| Length | | 8 | 8½ | 9 inch. |
| Maroon Handles, Nickel-Plated Blades | per doz. | $15.00 | 17.00 | 18.00 |

## BOKER'S PAPER HANGERS' SHEARS



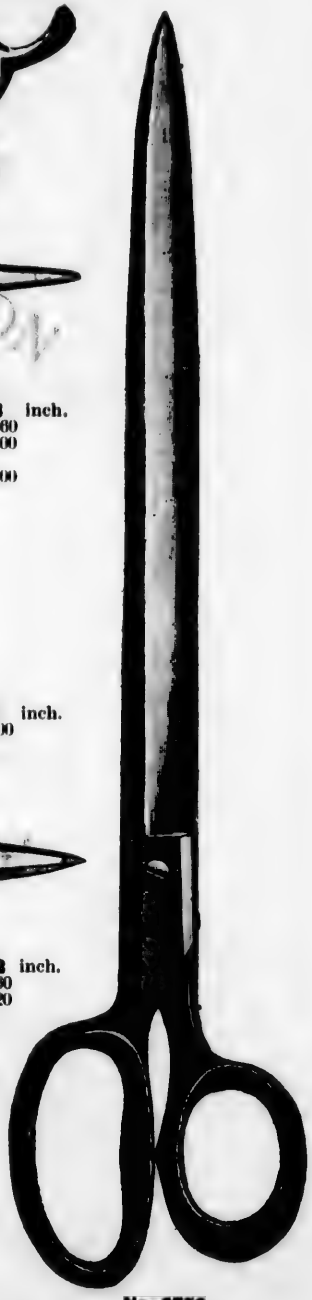
No. 6742

| | | | |
|---|---|---|---|
| Length | | 10½ | 12 inch. |
| No. 6742—Japanned Handles, Steel Blades | per doz. | $14.30 | 18.00 |
| " 6752— " " Fine Polished, Steel Blades | " | ..... | 19.20 |

## SEYMOUR'S BANKERS' OR PAPER HANGERS' SHEARS



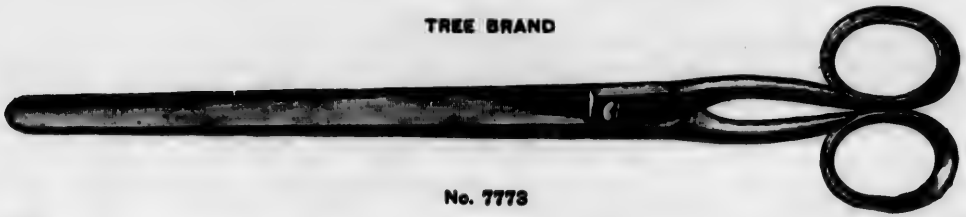
| | | | |
|---|---|---|---|
| Length | | 12 | 14 inch. |
| Regular Light Pattern, Maroon Handles, Nickel-Plated Blades | per doz. | $32.00 | 42.00 |



No. 6752

# BOKER'S BANKERS' SHEARS

TREE BRAND



No. 7773

| | | |
|---|---|---|
| Length | | 9 inch. |
| No. 7773—Light Pattern, Full Nickel Plated | per doz. | $16.35 |

## SEYMOUR'S SCISSORS AND TRIMMERS

TAILORS' POINTS



| Length | | 5 | 5½ | 6 inch. |
|---|---|---|---|---|
| Maroon Handles, Nickeled Blades | per doz. | $11.00 | 11.50 | 12.00 |

POCKET SCISSORS



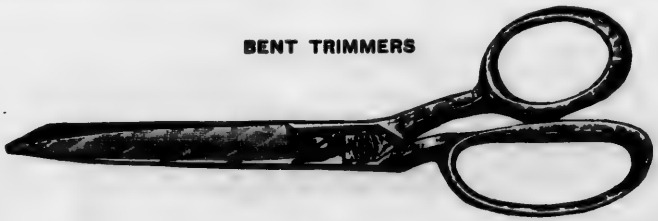
| Length | | 4 | 4½ | 5 inch. |
|---|---|---|---|---|
| Maroon Handles, Nickeled Blades | per doz. | $10.00 | 10.50 | 11.00 |

STRAIGHT TRIMMERS



| Length | | 6 | 6½ | 7 | 7½ | 8 | 8½ | 9 | 10 inch. |
|---|---|---|---|---|---|---|---|---|---|
| Seymour's Maroon Handle, Nickeled Blades | per doz. | $12.00 | 13.00 | 14.00 | 15.00 | 16.00 | 17.00 | 19.00 | 25.00 |
| " Full Nickel-Plated | " | .... | 13.00 | 14.00 | 15.00 | 16.00 | 17.00 | .... | .... |
| 115—Michigan Cutlery Co.'s Japanned Handle, N.P. Blade | per doz. | .... | 13.00 | 14.00 | 15.00 | 16.00 | 17.00 | 19.00 | .... |
| 15—Michigan Cutlery Co.'s Full Nickel-Plated | " | .... | 13.00 | 14.00 | 15.00 | 16.00 | 17.00 | 19.00 | .... |

BENT TRIMMERS



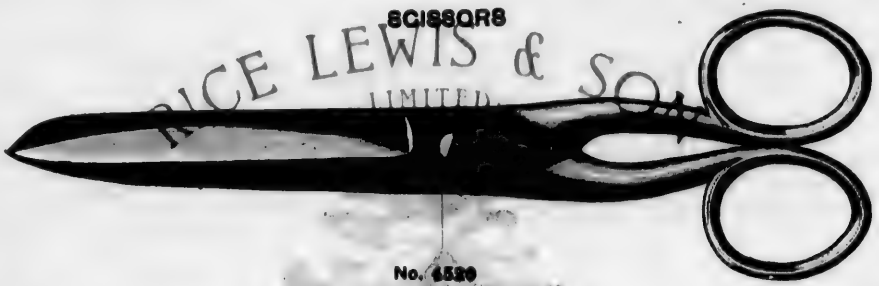
| Length | | 8 | 9 | 10 | 11 | 12 | 13 inch |
|---|---|---|---|---|---|---|---|
| Seymour's Maroon Handle, Nickel-Plated Blade | per doz. | $17.00 | 22.00 | 27.00 | 30.00 | 33.00 | 36.00 |

# SEYMOUR'S TAILOR SHEARS



| Nos. | 5 | 6 | 7 | 8 | 9 | 10 | |
|---|---|---|---|---|---|---|---|
| Full length | 13 | 13¾ | 14 | 14¼ | 14¾ | 15¼ | inch. |
| Japanned Handles, Nickel Blades ..... per pair | $8.00 | 9.00 | 10.00 | 11.00 | 12.00 | 13.00 | |

## SCISSORS




No. 4520

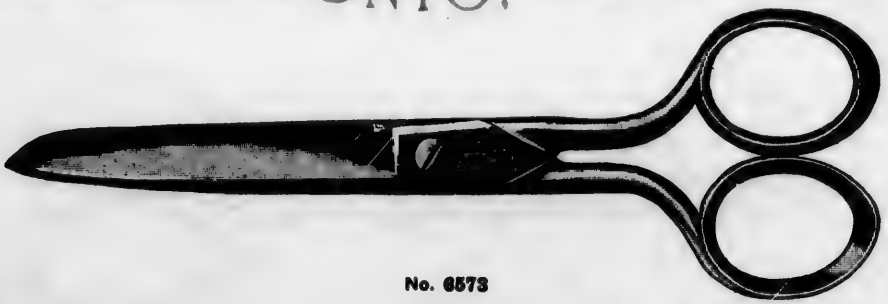
| Length | 5 | 6 | 7 | inch. |
|---|---|---|---|---|
| No. 4520—Edward's, All Bright ..... per doz. | $2.10 | 2.70 | 3.55 | |



No. 5573

| Length | 4½ | 5 | 5½ | 6 | 6½ | 7 | 7½ | 8 | inch. |
|---|---|---|---|---|---|---|---|---|---|
| No. 5573—Edward's, All Bright ..... per doz. | $3.50 | 3.65 | 3.90 | 4.20 | 4.80 | 5.50 | 6.80 | 8.10 | |

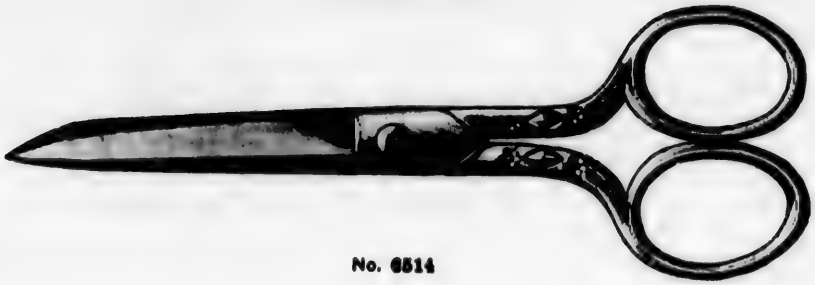
TORONTO, ONT.



No. 6573

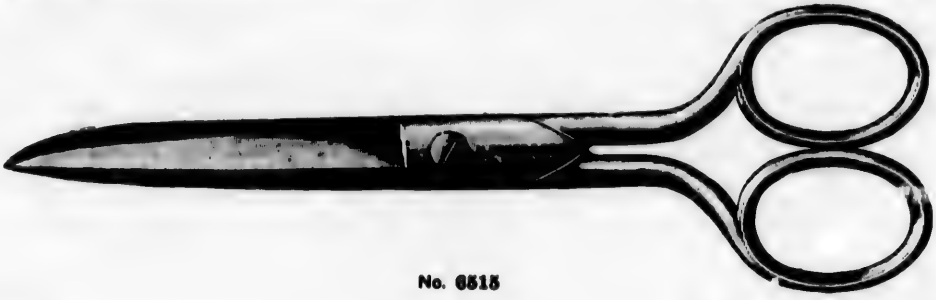
| Length | 4 | 4½ | 5 | 5½ | 6 | 6½ | 7 | inch. |
|---|---|---|---|---|---|---|---|---|
| No. 6573—H. Boker & Co.'s, Full Nickel-Plated ..... per doz. | $4.20 | 4.50 | 4.75 | 5.00 | 5.55 | 6.15 | 6.90 | |

# SCISSORS



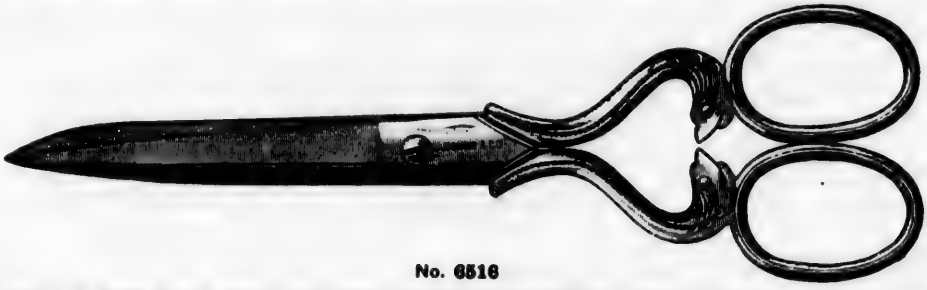
No. 6514

| Length | | 5 | 6 inch. |
|---|---|---|---|
| No. 6514—H. Boker & Co.'s, Full Nickel-Plated | per doz. | $5.10 | 6.15 |



No. 6515

| Length | | 4½ | 5½ | 6½ inch. |
|---|---|---|---|---|
| No. 6515—H. Boker & Co.'s, Gilt Handles, Fine Polished Steel Blade | per doz. | $4.50 | 5.00 | 6.15 |



No. 6516

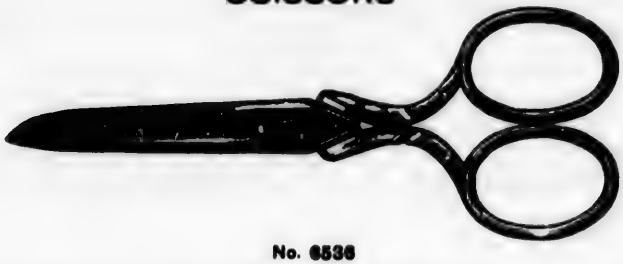
No. 6516—H. Boker & Co.'s, Fancy Gilt Handle, Fine Polished Steel Blade, Length 6 inches ..... per doz. $6.25



No. 6526

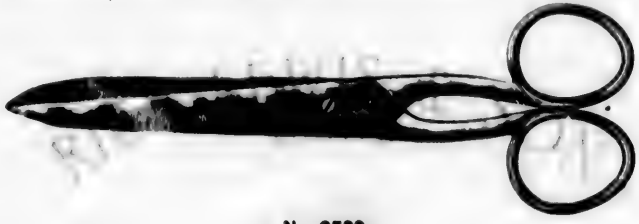
No. 6526—H. Boker & Co.'s, Fancy Gilt Handle, Fine Polished Steel Blades, Length 5 inches ..... per doz. 5.90

# SCISSORS



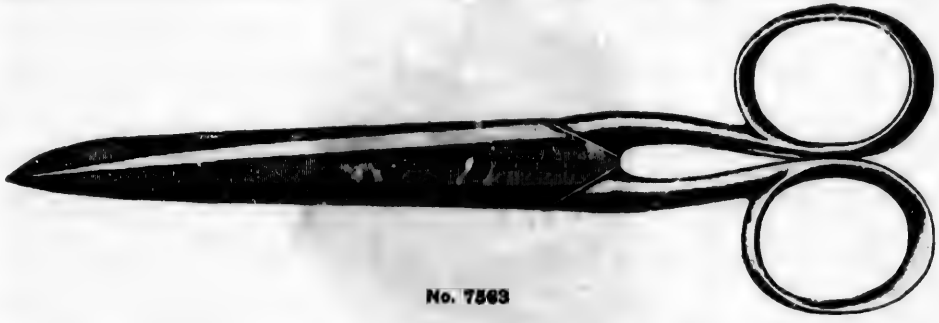
**No. 6536**

| | | |
|---|---|---|
| Length | | 4 inch. |
| No. 6536—H. Boker & Co.'s, Fancy Gilt Handle, Fine Polished Steel Blade | per doz. | $4.90 |



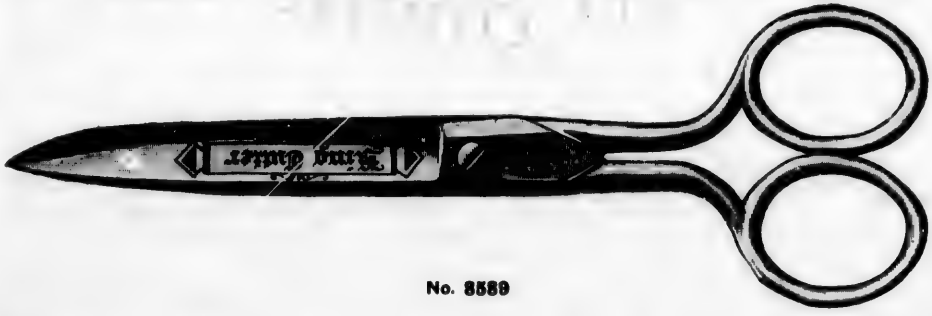
**No. 9500**

| Length | | 4½ | 5 | 5½ | 6 | 6½ | 7 inch. |
|---|---|---|---|---|---|---|---|
| No. 9500—Turner & Co.'s, Full Polished | per doz. | $3.20 | 4.40 | 5.10 | 6.25 | 7.10 | 8.45 |



**No. 7563**

| Length | | 4 | 4½ | 5 | 5½ | 6 | 6½ | 7 inch. |
|---|---|---|---|---|---|---|---|---|
| No. 7563—H. Boker & Co.'s, "Tree Brand," Full Nickel-Plated | per doz. | $5.65 | 6.10 | 6.70 | 7.50 | 8.50 | 9.50 | 10.65 |

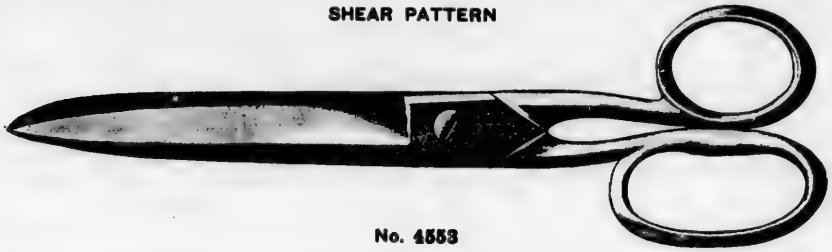



**No. 8589**

| Length | | 4 | 4½ | 5 | 5½ | 6 | 6½ | 7 inch. |
|---|---|---|---|---|---|---|---|---|
| No. 8589—H. Boker & Co.'s "King Cutter," Finest Mirror Polished, Round Bows | per doz. | $10.45 | 10.65 | 11.55 | 12.70 | 13.85 | 15.35 | 16.95 |

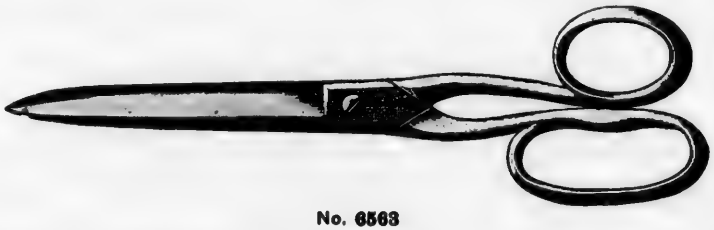
# SCISSORS

## SHEAR PATTERN



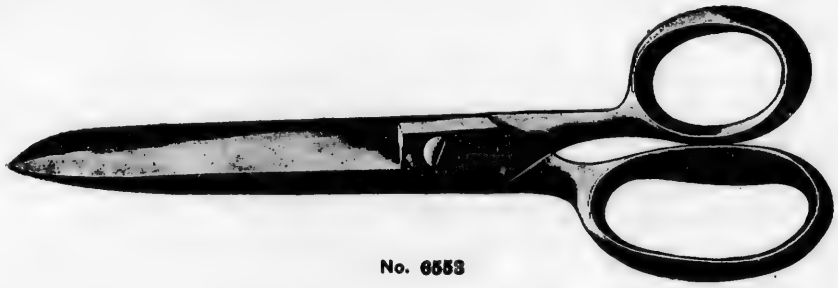
No. 4553

| | | | | |
|---|---|---|---|---|
| Length | | 6 | 7 | 8 inch. |
| No. 4553—Edwards', Shear Pattern, Full Nickel-Plated | per doz. | $4.50 | 5.40 | 6.80 |



No. 6563

| | | | | |
|---|---|---|---|---|
| Length | | 6 | 7 | 8 inch. |
| No. 6563—H. Boker & Co.'s, Slim Shear Pattern, Full Nickel-Plated | per doz. | $6.25 | 8.05 | 9.85 |



No. 6553

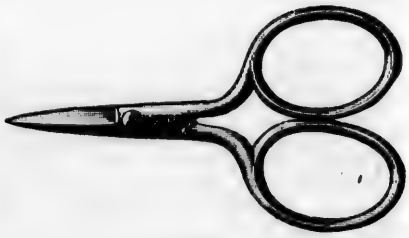
| | | | | |
|---|---|---|---|---|
| Length | | 7 | 8 | 9 inch. |
| No. 6553—H. Boker & Co.'s, Shear Pattern, Full Nickel-Plated | per doz. | $8.95 | 11.25 | 13.95 |

## LACE SCISSORS

Full size cuts.



No. 4030

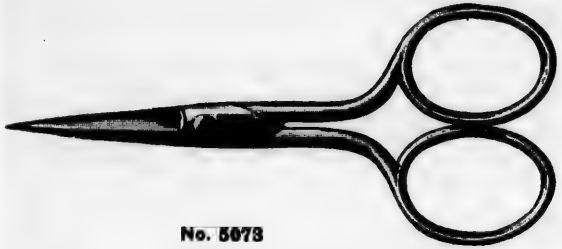


No. 4010

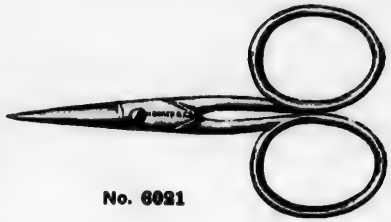
| | | | |
|---|---|---|---|
| Length | 3½ inch. | Length | 3½ 3 inch. |
| No. 4030—Edwards', All Bright | per doz. $1.65 | No. 4010—H. Heuser's, All Bright | per doz. $2.10 2.10 |

# LACE SCISSORS

Full size cuts.



No. 5073



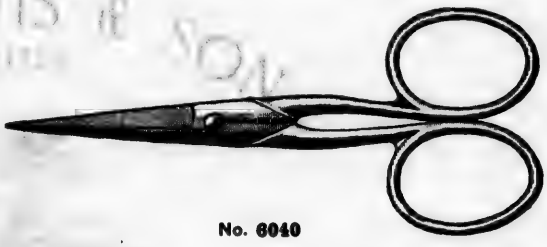
No. 6021

| | | |
|---|---|---|
| Length | 2½ | 3½ inch. |
| No. 5073—Crown Cultery Co., Full Nickel-Plated ..... per doz. | .... | 3.30 |
| " 6021—H. Boker & Co.'s, All Bright ..... " | $2.85 | .... |

8 inch.
6.80



No. 6010



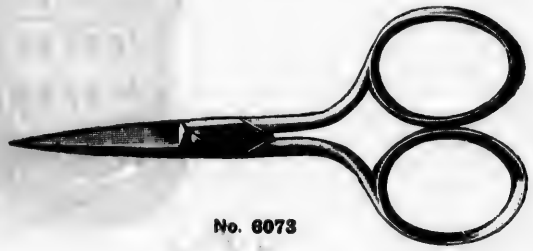
No. 6040

| | | |
|---|---|---|
| Length | 3 | 3½ inch. |
| No. 6010—H. Boker & Co.'s All Bright ..... per doz. | $2.60 | .... |
| " 6040— " Full Polished ..... " | .... | 2.95 |

8 inch.
9.85



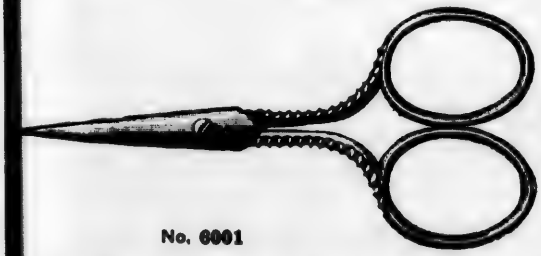
No. 6031



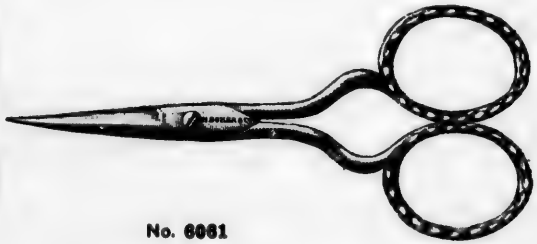
No. 6073

| | | |
|---|---|---|
| Length | 3 | 3½ inch. |
| No. 6031—H. Boker & Co.'s Fine Polished, with one Tip Point ..... per doz. | $3.85 | .... |
| " 6073— " Full Nickel-Plated ..... " | .... | 4.05 |
| " 6015— " Gilt Handles, Nickel-Plated Blade, Pattern as No. 6073, only Oval Blade ..... | .... | 4.20 |

9 inch.
13.95



No. 6001



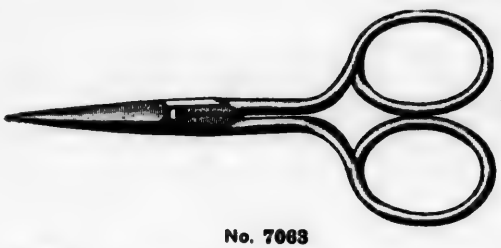
No. 6061

| | |
|---|---|
| Length | 3½ inch. |
| No. 6001—H. Boker & Co.'s Fine Polished, with Fancy Handle ..... per doz. | $4.75 |
| " 6061— " " " " " " " ..... " | 4.75 |

3 inch.
2.10

# LACE SCISSORS

Full size cuts.



No. 7063



No. 8089

| | | |
|---|---|---|
| Length | | 3¼ inch. |
| No. **7063**—H. Boker & Co.'s, "Tree Brand," Full Nickel-Plated | per doz. | $5.55 |
| " **8089**— " " "King Cutter," Fine Mirror Polished, Round Bows | " | 9.75 |

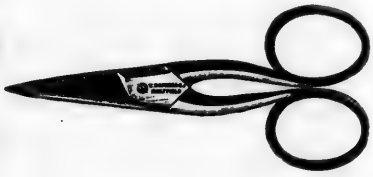
Two-thirds size cuts.



No. 9010



No. 9011



No. 9012

| | | | |
|---|---|---|---|
| Length | 3¼ | | 3½ inch. |
| No. **9010**—Turner & Co.'s, Large Bows, Full Polished | per doz. | .... | $6.40 |
| " **9011**— " " " " | " | $8.45 | .... |
| " **9012**— " " " " | " | .... | 6.40 |



No. **6041**, **4** inch.

No. **6041**—H. Boker & Co.'s, Lace, Fine Polish, 4 inch ..... per doz. $3.85 $4.05



No. **6041**, **5** inch.

No. **6041**—H. Boker & Co.'s, Tailors' Points, Fine Polished, 5 inch ..... per doz. 5.55

# POCKET SCISSORS

Full size cuts.



No. 4120

No. 5173

No. 6110

No. 6121, 3 inch.

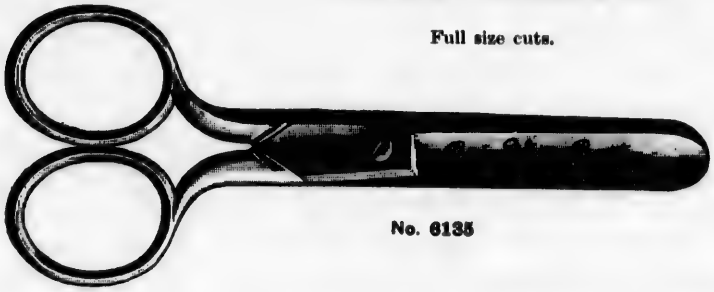
No. 6121, 4 inch.

No. 6173

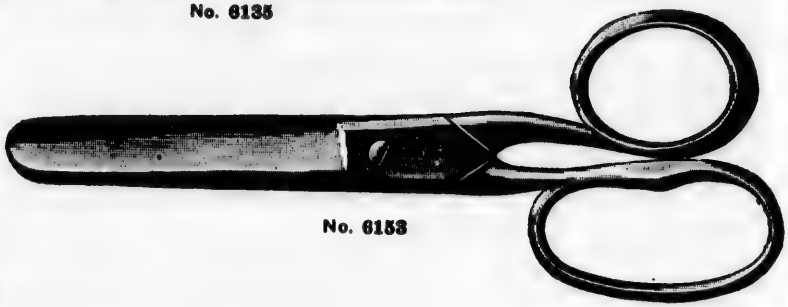
| Length | 3 | 3½ | 4 | 4½ | 5 inch. |
|---|---|---|---|---|---|
| No. **4120**—Edwards', all Bright.....per doz. | .... | .... | 1.95 | .... | .... |
| " **5173**—Crown Cutlery Co.'s, Full Nickel-Plated ..... " | .... | .... | 3.50 | 3.70 | .... |
| " **6110**—H. Boker & Co.'s, Full Polished ..... " | .... | .... | 2.95 | 3.25 | .... |
| " **6121**— " " Fine Finish, Slim Pattern ..... " | 3.30 | .... | 4.10 | .... | .... |
| " **6173**— " " Full Nickel-Plated ..... " | .... | .... | 4.50 | 4.75 | 5.00 |
| " **9100**—Turner & Co.'s, Full Polished, pattern as No. 6110.... " | .... | 4.75 | .... | .... | .... |

# POCKET SCISSORS

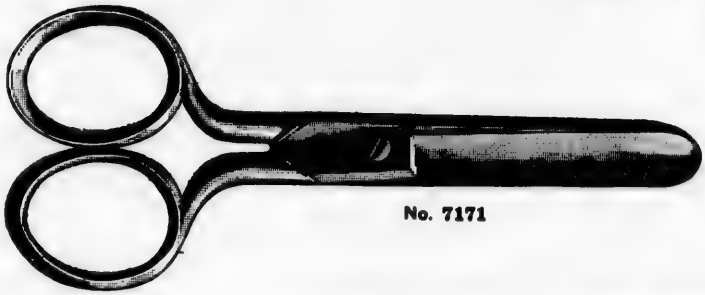
Full size cuts.



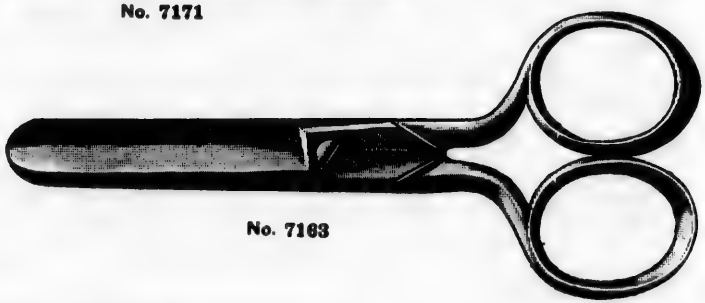
No. 6135



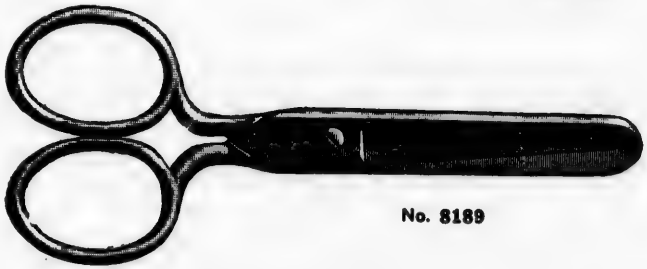
No. 6153



No. 7171



No. 7163



No. 8189

| Length | | | | | 4 | 4½ | 5 | 6 | inch. |
|---|---|---|---|---|---|---|---|---|---|
| No. 6153— | H. Boker & Co.'s, | Full Nickel-Plated | | per doz. | $.... | 5.35 | 5.80 | .... | |
| " 6135— | " | " | Gilt Handle, Fine Polished Steel Blade.... | " | 6.10 | 6.55 | .... | .... | |
| " 7171— | " | " | "Tree Brand," Fine Polished ..... | " | 6.00 | 6.55 | .... | .... | |
| " 7163— | " | " | " Full Nickel-Plated..... | " | 6.10 | 6.70 | 7.50 | 9.50 | |
| " 8189— | " | " | "King Cutter," Fine Mirror Polished, Round Bows..... | per doz. | 10.65 | 11.55 | 12.50 | .... | |

# BUTTON-HOLE SCISSORS

## REGULATING

Full size cuts.



No. 5421

No. 5443

No. 5453

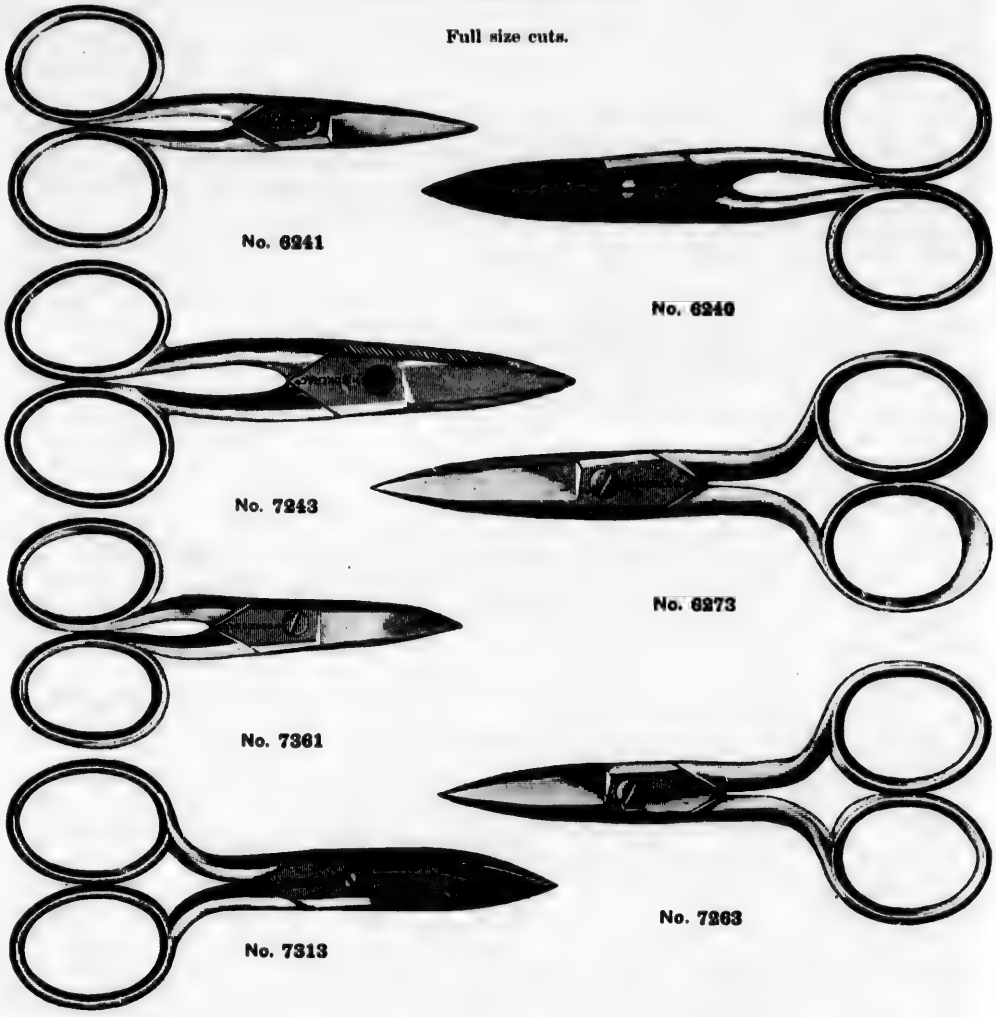
No. 6421

No. 7443

| Length | 3½ | 4 | 4½ | 5 | 5½ inch. |
|---|---|---|---|---|---|
| No. **5421**—Crown Cutlery Co.'s, Polished ..... per doz. | .... | 5.30 | 5.40 | .... | .... |
| " **5443**— " " Full Nickel-Plated ..... " | .... | .... | .... | 6.70 | .... |
| " **5453**— " " " " ..... " | .. . | ... | .. . | .... | 8.80 |
| " **6421**—H. Boker & Co.'s, Polished ..... " | .... | .... | 5.55 | .... | .... |
| " **7443**— " " "Tree Brand," Full Nickel-Plated.. " | .... | .... | .... | .. . | 10.90 |
| " **9400**—Turner & Co.'s, Full Polished, pattern as No. 5421.... " | $9.45 | .... | .... | .... | .... |

# NAIL SCISSORS

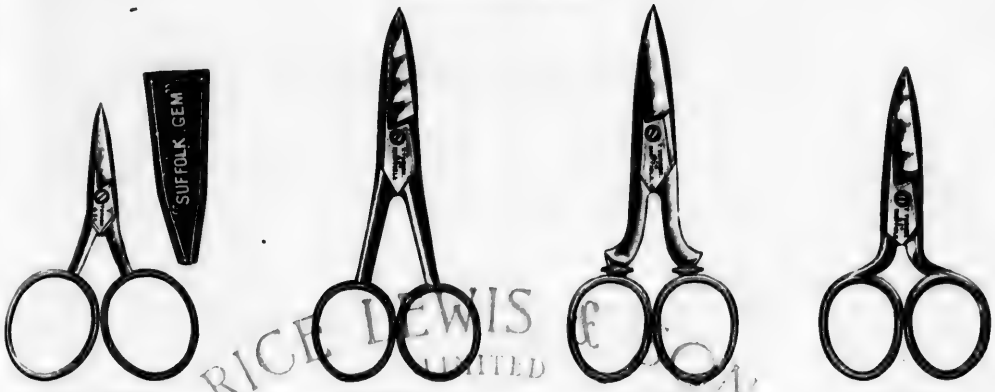
Full size cuts.




| Length | | | | | 3 | 3½ | 3¾ | 4 | inch. |
|---|---|---|---|---|---|---|---|---|---|
| No. 6240—H. Boker & Co.'s, | | | Polished | per doz. | .... | .... | 2.95 | .... | |
| " 7341—Bent, | " | " | "Tree Brand," Fine Polished, pattern as No. 6240 | " | .... | .... | .... | 9.20 | |
| " 6241— | " | " | Fine Polished | " | 5.30 | .... | .... | .... | |
| " 6273— | " | " | Full Nickel-Plated | " | .... | .... | .... | 4.65 | |
| " 6373—Bent, | " | " | " " pattern as No. 6273 | " | .... | .... | .... | 7.15 | |
| " 7243— | " | " | "Tree Brand," Nickel-Plated Handles, Fine Polished Blades | " | .... | .... | 6.35 | .... | |
| " 7263— | " | " | "Tree Brand," Full Nickel-Plated | " | .... | 6.45 | .... | .... | |
| " 7363—Bent, | " | " | " " " pattern as No. 7263 | " | .... | 9.50 | .... | .... | |
| " 8289— | " | " | "King Cutter," Fine Mirror Polished, Round Bows | " | .... | 10.75 | .... | .... | |
| " 8389—Bent, | " | " | " " " " pattern as No. 7263 | " | .... | 14.05 | .... | .... | |
| " 7361—Bent, | " | " | "Tree Brand," Fine Polished | " | 8.15 | .... | .... | .... | |
| " 6361—Bent, | " | " | Fine Polished, pattern as No. 7361 | " | .... | 6.00 | .... | .... | |
| " 7313—Bent, | " | " | "Tree Brand," Nickel-Plated Handles, Polished Blades | " | .... | 11.25 | .... | .... | |

# NAIL SCISSORS

Two-thirds size cuts.



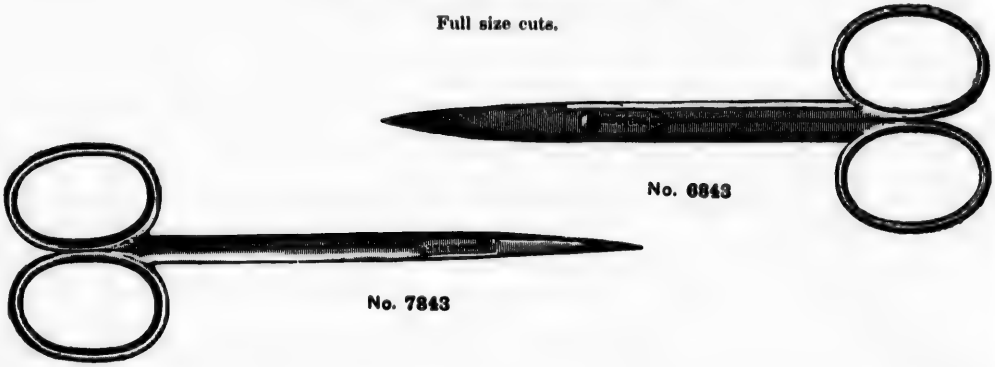

No. 9200 No. 9201 No. 9203 No. 9204

RICE LEWIS & SON LIMITED

| | | |

# MANICURE SCISSORS

Full size cuts.

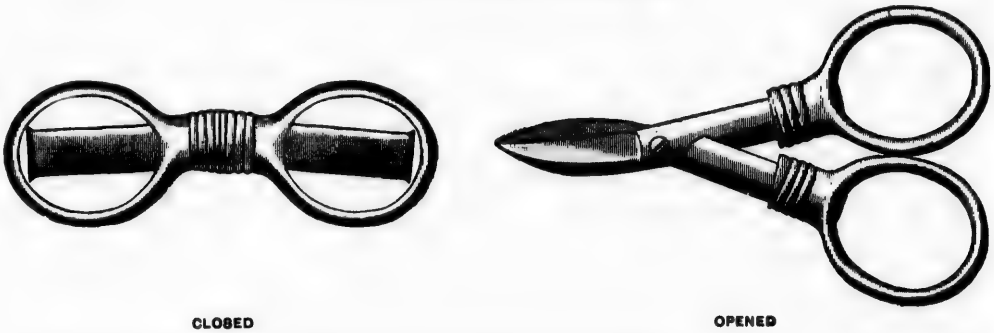


No. 6843

No. 7843

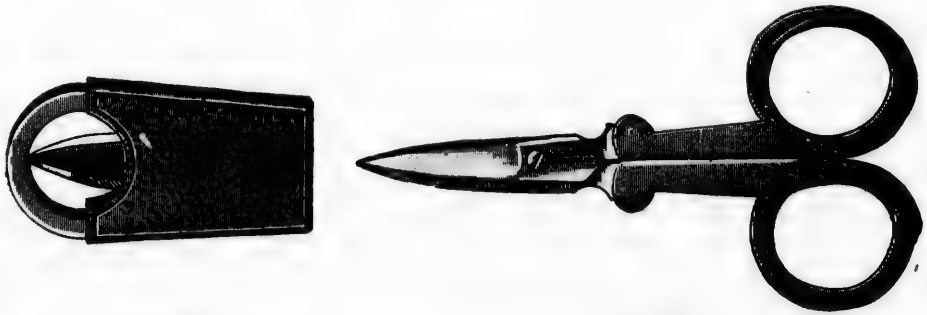
| | | |
|---|---|---|
| Length | | 4 inch. |
| No. **6843**—Bent, H. Boker & Co.'s, Full Nickel-Plated | per doz. | $6.90 |
| " **7843**—Bent, " " "Tree Brand," Full Nickel-Plated | " | 8.70 |

## FOLDING POCKET SCISSORS



CLOSED OPENED

| | | |
|---|---|---|
| No. **5911**—Crown Cutlery Co.'s, Folding Pocket Nail Scissors, Fine Polished | per doz. | $4.00 |
| " **6913**—H. Boker & Co.'s, " " " | " | 4.90 |

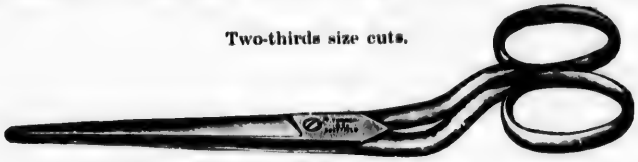


No. 7943 No. 5943

| | | |
|---|---|---|
| No. **7943**—H. Boker & Co.'s, "Tree Brand," Pocket Nail Scissors, Full Polished | per doz. | 9.90 |
| " **7944**— " " " " Pocket Scissors, Round Point | " | 10.35 |
| " **5943**—Crown Cutlery Co.'s, Full Nickel-plated, Folding Pocket Nail Scissors | " | 4.00 |

# HORSE CLIPPING OR CATTLE MARKING SCISSORS

Two-thirds size cuts.



No. 9601

| | | | |
|---|---|---|---|
| Length | | 5½ | 6½ inch. |
| No. **9601**—Turner & Co.'s, Bent Handle, Straight Blades, Polished | per doz. | $8.10 | 10.85 |

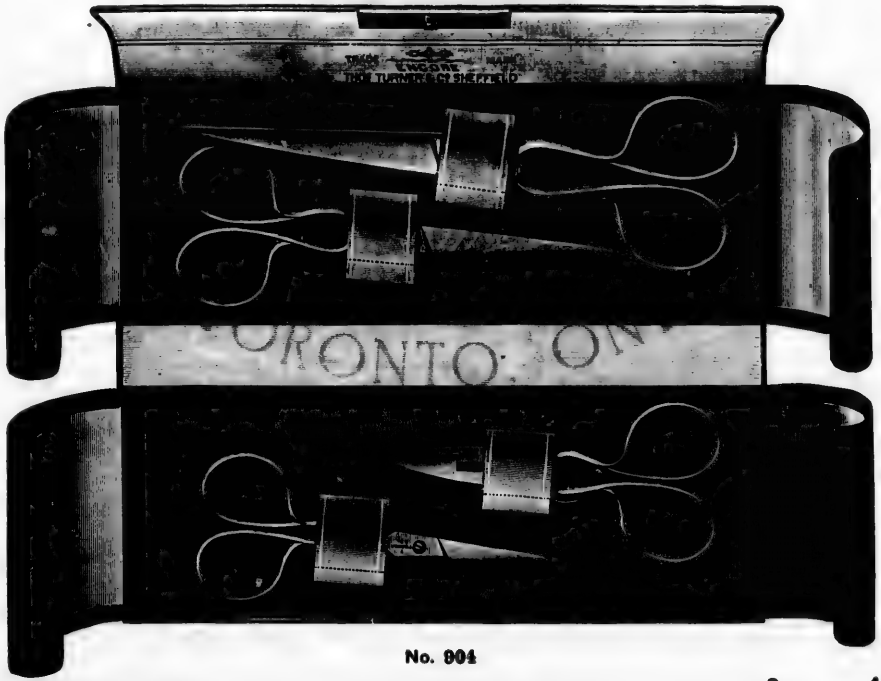


No. 9600

| | | | |
|---|---|---|---|
| Length | | | 6½ inch. |
| No. **9600**—Turner & Co.'s. Bent Handle, Curved Blades | per doz. | | 14.85 |
| " **6821**—Boker's Bent Handle, Curved Blades with Fine Tooth Cut Edges | " | | 11.55 |

## SCISSORS IN CASES

Two-thirds size cut.



No. 904

| | | | |
|---|---|---|---|
| Number of Scissors in Case | | 3 | 4 pair. |
| No. **904**—Genuine Crocodile Case, Dark Green, Turner's Fine Polished Scissors | per case | $5.25 | 5.95 |

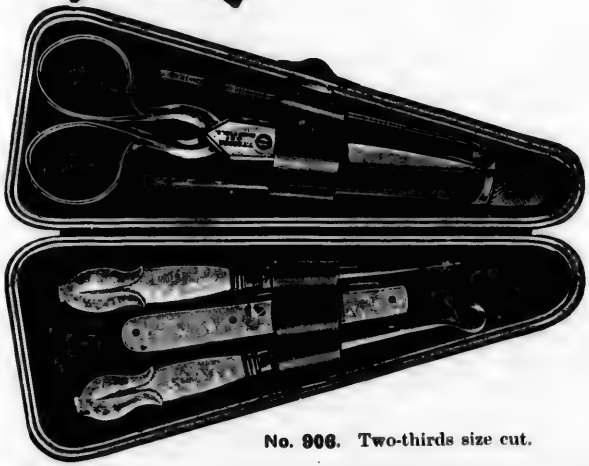
# SCISSORS IN CASES



No. 905 Two-thirds size cut.



No. 901
Two-thirds size cut.

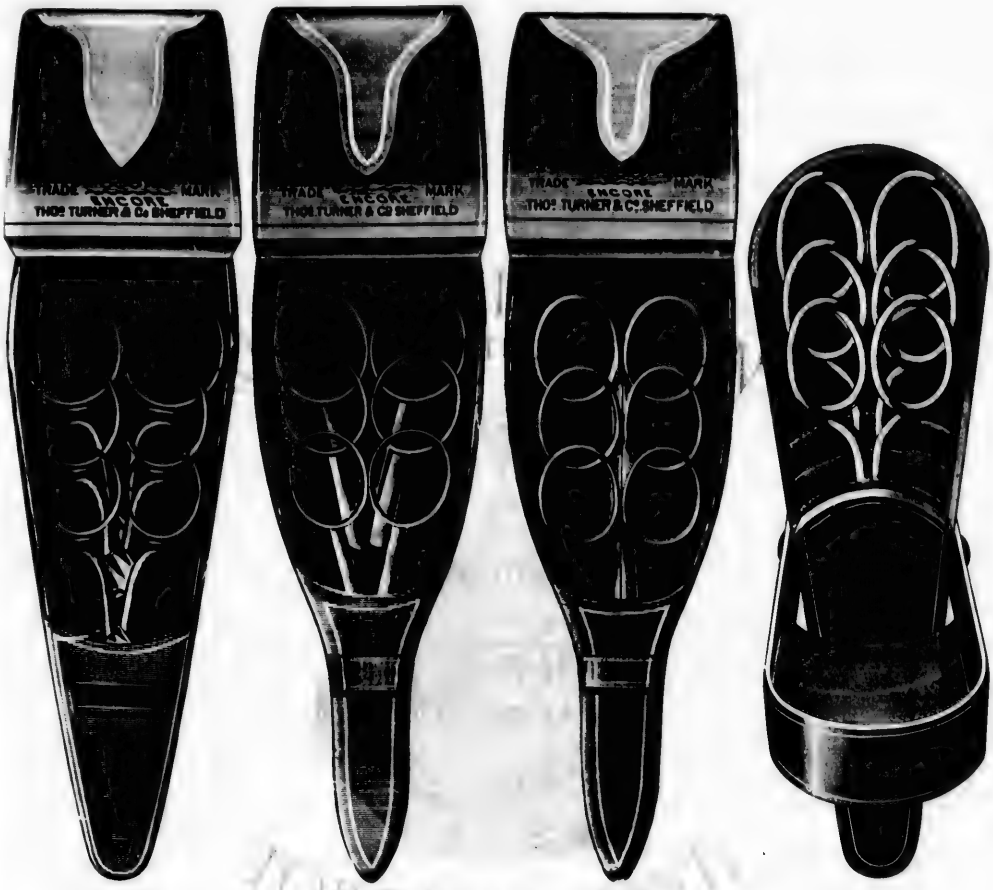


No. 906. Two-thirds size cut.

| | | |
|---|---|---|
| Number of Scissors in Case | 3 | 5 pairs. |
| No. 905—Best Calf Case, Grained, Dark Green, Turner's Full Polished Scissors.....per case. | .... | $5.75 |
| " 901— " " Dark Green or Dark Red, Plush and Silk Lined, Turner's Polished Scissors.....per case. | $4.40 | .... |
| " 906—Turner's Ladies' Companion, Leather Covered Case, Dark Green or Dark Red, Contains 1 pair 4½ inch Scissors, 1 Pearl Handled Penknife, Button Hook and Stiletto, 1 Steel Bodkin and Tape Needle, and Stirling Silver Thimble..per case. | .... | 5.10 |

# SCISSORS IN CASES

Two-thirds size cuts.




No. 900 No. 902 No. 903 No. 605

| Number of Scissors in Case | | 3 | 4 | 5 | 6 pairs. |
|---|---|---|---|---|---|
| No. **900**—Pig Skin Case, Buff, Plush Lined, **Turner's**, Full Polished Scissors, | per case | $2.70 | 3.40 | .... | .... |
| " **600**—Grained Leather Case, **Boker's**, Full Polished Scissors | " | 1.90 | .... | .... | .... |
| " **601**— " " " " Fine " " Oval Shank and Bows | " | 2.70 | .... | .... | .... |
| " **602**—Plush Case, Crimson, Blue or Old Gold, **Boker's**, Fine Polished Scissors | " | 3.40 | .... | .... | .... |
| " **603**—Best Calf Case, Dark Green or Dark Red, **Boker's**, "Tree Brand" Mirror Polished Scissors, Silver-Plated Fancy Handles | " | 5.00 | .... | .... | .... |
| " **604**—Best Calf Case, Dark Green or Dark Red, **Boker's**, "Tree Brand" Mirror Polished Scissors, Silver-Plated Handle, Round Bows | " | 5.00 | .... | .... | .... |
| " **902**—Best Calf Case, Dark Green or Dark Red, Plush and Silk Lined, **Turner's**. Fine Polished Scissors with Silver-Plated Handles | " | 4.40 | 5.75 | 7.10 | 9.15 |
| " **903**—Pig Skin Case, Dark Brown Color, Plush and Silk Lined, **Turner's**, Fine Polished Scissors with Silver-Plated Handles | " | 5.10 | 6.10 | 7.60 | .... |
| " **605**—Russian Leather Case, Plush Lined, **Boker's**, Polished Scissors, Gilt Handles | " | 2.80 | .... | .... | .... |

Cases for Nos. 600 to 604 same style of case as No. 900.

# BUTTER KNIVES



No. 9192

No. **9192**—Ebony Straight Handle, 8 inch Solid Nickel Silver Blade ..... per doz. $14.85



No. 9152

No. **9152**—Ebony Cranked Handle, 9 inch Solid Nickel Silver Blade ..... per doz. 18.25

## BUTTER AND LARD SPADE



No. 08½

No. **08½**—Cocobolo Handle, Metal Bolster, Forged and Tempered Steel Blade, Tinned ..... per doz. 11.00
" **9161**—Cocoa Handle, Round, 5 inches long through Tang, Steel Blade, 8½ x 3 inch, Silver-Plated. 21.50

## BUTTER AND LARD TROWEL



No. **16**—6 inch, Plated with Pure Block Tin ..... per doz. 7.20
" **18**—7 " " " " " " .... ..... ..... " 8.50

# BUTTER AND CHEESE TRYERS



No. 801



No. 500



No. 900 Full size cut.

| | 16 | 18 | 20 | inch. |
|---|---|---|---|---|
| Length | | | | |
| No. **801**—Wood Handle, Best Cast Steel Blade, Riveted Through Handle, Ground Thin, Tapering ⅜ to ¼ inch, Full Polished, Nickel-Plated ..... per doz. | $15.00 | 16.50 | 18.30 | |
| " **811**—Wood Handle, Trowel Shank, Best Cast Steel Blade, Riveted Through Handle, Ground Thin, Tapering ⅜ to ¼ inch, Full Polished, Nickel-Plated ..... per doz. | 43.00 | .... | 54.50 | |

| | 4 x ¼ | 4 x ½ | 6 x ½ | inch. |
|---|---|---|---|---|
| Size | | | | |
| No. **500**—Cast Steel, Polished ..... per doz. | .... | $3.70 | 4.10 | |
| " **600**— " Full Nickel-Plated, Pattern as No. 500 ..... " | .... | 4.50 | 5.20 | |
| " **700**—Best Cast Steel, Full Polished, Nickel-Plated, Ground Specially Thin " | $5.00 | .... | 11.00 | |

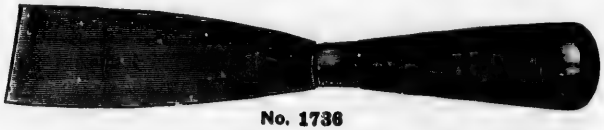
" **900**—Pocket Cheese Tester, Cast Steel Blade, Ground Thin, Full Polished and Nickel-Plated ..... per doz. $8.00

## PUTTY KNIVES



No. 1735

No. **1735**—Boker's, Stained Handle, Iron Ferrule ..... per doz. $2.40
" **321**—Rodgers', Riveted Cocoa Handles, Iron Bolster ..... " 3.55



No. 1736

No. **1736**—Boker's, Stained Handle, Iron Ferrule ..... per doz. 2.40
" **301**—Rodgers', Riveted Cocoa Handles, Iron Bolster ..... " 3.55

# PUTTY KNIVES



No. 1737

No. **1737**—Boker's, Stained Handle, Iron Ferrule ..... per doz. $2.40
" **301**—Rodgers', Riveted Cocoa Handles, Iron Bolster ..... " 3.55



No. 150

No. **150**—Russell's, Round Point, Riveted Redwood Handle, Iron Ferrule ..... per doz. 3.75
" **150**— " Square " " " " ..... " 3.75
" **150**— " Clip " " " " ..... " 3.75

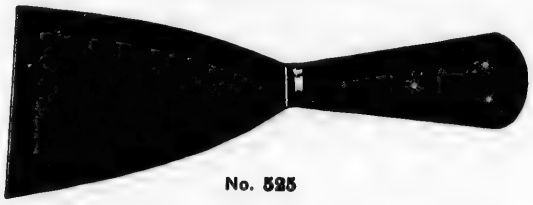
## HACKING KNIVES



No. 8356

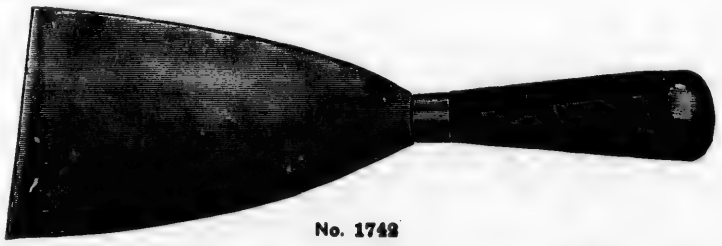
No. **8356**—Boker's, Leather Handle Hacking Knife ..... per doz. 3.60
" **0**—Russell's, " " " ..... " 7.65

## SCRAPING KNIVES



No. 525

| | | | |
|---|---|---|---|
| Width of Blade | 2¾ | 3 | 3¼ inch. |
| No. **525**—Russell's, Riveted Redwood Handle ..... per doz. | $9.35 | 10.00 | .... |
| " **331**—Rodgers', " Cocoa " Iron Ferrule ..... " | .... | ..... | 8.15 |



No. 1742

| | | | |
|---|---|---|---|
| Width of Blade | 2½ | 3 | 3½ inch. |
| No. **1742**—Boker's, Stained Handle, Iron Ferrule ..... per doz. | $2.95 | 3.00 | 3.25 |

# PALETTE KNIVES




| Length | 4 | 6 | 8 | 9 | 10 | 12 inch. |
|---|---|---|---|---|---|---|
| No. **9761**—Turner's, Cocoa Handle ..... per doz. | .... | .... | $6.75 | 8.80 | 10.80 | 14.85 |
| " **1734**—Boker's, Stained Handle, Iron Ferrule ..... " | .... | 3.80 | 4.25 | .... | 4.65 | 4.95 |
| " **1586**—Russell's, Redwood " " Bolster ..... " | 4.50 | 6.40 | 10.20 | .... | .... | .... |

## PAPER KNIVES



**No. 5**

No. **5**—Russell's, Beechwood Handle, Blade 3⅜ x 1 5/16 inch, Square Point ..... per doz. $5.10



**No. 15**

No. **15**—Russell's, Beechwood Handle, Blade 3⅜ x 1 5/16 inch, Round Point ..... per doz. 5.10

## SHOE KNIVES



| Length of Blade | 3 | 3¼ | 3½ | 4 | 4¼ | 4½ | 5 inch. |
|---|---|---|---|---|---|---|---|
| **Goodell's**, Square Point, Cast Steel Blade, Maple Handle ..... per doz. | .... | .... | .... | $2.55 | .... | .... | .... |
| **S. Tubbs**, " " " " " " | $1.60 | .... | 1.60 | 1.60 | .... | 1.60 | .... |
| **Ames' No. 2**, " " " Blackwood Handle.. " | .... | 1.80 | .... | .... | .... | .... | .... |
| " " 3, " " " " | .... | .... | 1.80 | .... | .... | .... | .... |
| " " 2, Round Point, " " " " | .... | .... | .... | .... | 1.80 | .... | .... |
| " " 3, " " " " | .... | .... | .... | .... | .... | .... | 2.05 |

## CIGAR KNIFE



**No. 6026**

No. **6026**—Riveted Brown Wood Handle, with 3 Rivets, 3½ inch Blade ..... per doz. 1.30

## KITCHEN KNIFE




**No. 6022**

No. **6022**—Riveted Brown Wood Handle, 3½ inch Blade ..... per doz. 1.20

# KITCHEN KNIVES




**No. 375A.** Half size cut.

No. **375A**—Boker's, Reveted Beechwood Handle, 3 inch Polished Blade.....per doz. $1.00




**No. 373.** Half size cut.

No. **373**—Boker's, Reveted Beechwood Handle, 3 inch Polished Blade.....per doz. 1.00



**No. 15.** Half size Cut.

No. **15**—Goodell's, Rosewood Handle, Iron Bolster, 3 inch Polished Blade.....per doz. 1.40



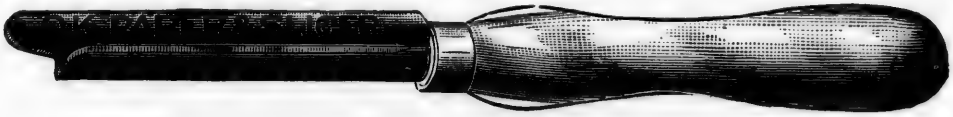
**ÆTNA**

No. **1**—Ætna, Beechwood Handle, Brass Ferrule, 3¼ inch Blade.....per doz. 1.50




**DIAMOND**

**Diamond,** Beechwood Handle, Iron Ferrule, 4 inch Blade.....per doz. 3.30



**O.K.** Full size cut.

**O.K.**—Parer and Slicer, Black Japanned Handle, Tinned Blade.....per doz. 1.20

# BREAD KNIVES




No. 261




No. 271



No. 2




No. 22

| Length of Blade | | 6½ | 7½ | 8 | inch. |
|---|---|---|---|---|---|
| No. 261 - Rodgers', Carved Boxwood Handle | per doz. | $6.40 | 8.85 | .... | |
| " 271— " Plain Beechwood Handle | " | .... | .... | 6.00 | |
| " 2—Ætna, Polished Beechwood Handle, 10-inch Blade | per doz. | | | | $3.30 |
| " 22—Quick Cut, Nickel-Plated Handle and Blade, 10-inch Blade | " | | | | 2.50 |

# RODGERS' BUTCHERS' KNIVES




**No. 211**

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Length of Blade..... | **5** | **5½** | **6** | **6½** | **7** | **8** | **9** | **10** | **12** | **14** | inch. |
| No. **211**—Rosewood Handle..... .....per doz. | $4.45 | 4.80 | 5.15 | 5.50 | 6.40 | 7.45 | 9.20 | 11.00 | 17.70 | 13.20 | |

**SKINNING**




**No. 221**

| | | | | |
|---|---|---|---|---|
| Length of Blade ..... | **5** | **5½** | **6** | inch. |
| No. **221**—Rosewood Handle..... .....per doz. | 4.45 | 4.80 | 5.15 | |

**STICKING**




**No. 231**

| | | |
|---|---|---|
| Length of Blade..... | **6** | inch. |
| No. **231**—Rosewood Handle..... .....per doz. | 5.15 | |




**No. 241**

| | | | | | |
|---|---|---|---|---|---|
| Length of Blade..... | **5** | **5½** | **6** | **6½** | **7** inch. |
| No. **241**—Beechwood Handle.....per doz. | $3.00 | 3.20 | 3.40 | 3.75 | 4.60 |



**No. 251**

| | | | | | |
|---|---|---|---|---|---|
| Length of Blade..... | **5** | **5½** | **6** | **6½** | **7** inch. |
| No. **251**—Beechwood Handle.....per doz. | $3.00 | 3.20 | 3.40 | 3.75 | 4.25 |

# JOHN WILSON'S BUTCHERS' KNIVES



| Beechwood Handle. | | | | | Rosewood Handle. | | | | |
|---|---|---|---|---|---|---|---|---|---|
| No. | **28** | **29** | **30** | **43** | No. | **28R** | **29R** | **30R** | **43R** |
| Length of Blade | 5½ | 6 | 6½ | 7 inch. | Length of Blade | 5½ | 6 | 6½ | 7 inch. |
| Per dozen | $3.75 | 4.35 | 4.95 | 5.80 | Per dozen | $4.05 | 5.25 | 5.80 | 6.95 |

**14** inch.
13.20

**SKINNING**




ROY LEWIS & SON TORONTO, ONT.

| Beechwood Handle. | | | Rosewood Handle. | | |
|---|---|---|---|---|---|
| No. | **128** | **129** | No. | **128R** | **129R** |
| Length of Blade | 5½ | 6 inch. | Length of Blade | 5½ | 6 inch |
| Per dozen | 3.75 | 4.35 | Per dozen | 4.05 | 5.25 |

**6** inch.
5.15

**STICKING**



Beechwood Handle.
No. **229**—6 inch, Sticking.....per doz. **$4.35**

Rosewood Handle.
No. **229R**—6 inch, Sticking.....per doz. $5.25

## ASKHAM'S "WAPACUT" BUTCHERS' KNIVES

**6** inch.
5.15




| Length | **5** | **5½** | **6** | **7** | **8** | **9** | **10** inch. |
|---|---|---|---|---|---|---|---|
| No. **475**—Butcher, Beechwood Handle.....per doz. | 3.80 | 4.20 | 4.20 | 5.20 | 6.75 | 8.75 | 9.95 |

**SKINNING**

**7** inch.
4.60

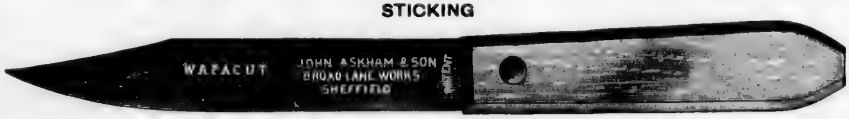



TORONTO, ONT.

| Length | **5** | **5½** | **6** inch. |
|---|---|---|---|
| No. **477**—Skinning, Beechwood Handle .....per doz. | 4.20 | 5.20 | 5.20 |

**STICKING**

**7** inch.
4.25




No. **480**—6 inch, Sticking, Beechwood Handle.....per doz. 4.20

# NICHOLS BROS.' BUTCHERS' KNIVES



| No. | 25 | 25½ | 26 | 26½ | 27 | 28 | 29 | |
|---|---|---|---|---|---|---|---|---|
| Length of Blade | 5 | 5½ | 6 | 6½ | 7 | 8 | 9 | inch. |
| Beechwood Handle ..... per doz. | $3.40 | 3.85 | 4.00 | 4.95 | 5.75 | 7.25 | 8.60 | |

## SKINNING



| No. | 45 | 45½ | 46 | |
|---|---|---|---|---|
| Length of Blade | 5 | 5½ | 6 | inch. |
| Beechwood Handle ..... per doz. | $3.40 | 4.00 | 4.65 | |

## STICKING



**No. 36**

No. **36**—6 inch Blade, Beechwood Handle ..... per doz. $4.65

## NICHOLS' NEW YORK PATTERN LAMB SPLITTER



**12 x 2½** inch Blade, Hand Made from Silver Tool Steel, Riveted Beechwood Handle ..... per doz. 32.00
**14 x 2½** " " " " " " " " 35.20

## NICHOLS' SPLITTING KNIVE




**No. 312**

No. **312**—12 inch, Forged Steel Blade, Beechwood Handle, for Splitting Small Stock ..... per doz. 19.80
" **312X**—12 " " " " " " Extra Heavy ..... " 23.10

## SHEFFIELD CHOPPING KNIFE




**No. 9772**

No. **9772**—Turner's, Sheffield Chopping Knife, 12 x 2½ inch Blade, 6½ inch Ebony Handle, Scale Tanged ..... per doz. 32.50

# TURNER'S BACON KNIFE



No. 9731

No. **9731**—10 inch Blade, Beechwood Handle, Iron Ferrule.....per doz. $12.25

## NICHOLS' STEAK KNIFE



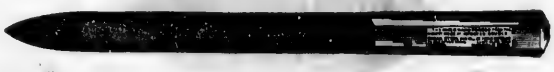
| Nos. | | **210** | **212** |
|---|---|---|---|
| Length of Blade | | 10 | 12 inch. |
| Beechwood Handle | per doz. | $10.55 | 16.50 |

## NICHOLS' CIMETER BLADE STEAK KNIFE



| Nos. | | **010** | **012** | **014** |
|---|---|---|---|---|
| Length of Blade | | 10 | 12 | 14 inch. |
| Beechwood Handle | per doz. | $10.55 | 16.50 | 23.10 |

## NICHOLS' PORK KNIFE



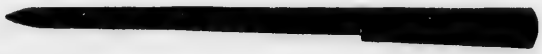
No. **410**—10 inch Blade, Beechwood Handle.....per doz. $10.55

## NICHOLS' BONING KNIFE



No. **40**—6 inch Blade, Beechwood Handle.....per doz. 4.60

## NICHOLS' COOKS' LEANING KNIFE



No. **912**—12 inch Blade, Cocoa Handle.....per doz. 16.50

# COOKS' OR "SABATIER" KNIVES

## AND COOKS' FORKS




COOKS' KNIFE



No. 9741



No. 895



No. 8752

### COOKS' FORKS

| | | Per doz. |
|---|---|---|
| No. **895**—Nichols', Cocoa Handle, Full Length, | 13 in. .. | $5.00 |
| " **8752**—6 in., Boker's, Ebony " " | 11 " .. | 10.80 |
| " **8752**—8 " " " " | 13 " .. | 11.60 |
| " **8752**—9 " " " " | 14 " .. | 12.20 |
| " **9741**—Turner's, Beech " " | 13 " .. | 7.80 |

### COOKS' OR "SABATIER" KNIVES

| Length of Blade..... | 5 | 6 | 8 | 9 | 10 | 11 | 12 inch. |
|---|---|---|---|---|---|---|---|
| No. **202**—Rodgers', Ebony Handle .....per doz. | .... | .... | $11.00 | 13.10 | 17.00 | ..... | 21.95 |
| " **8202**—Boker's " ..... " | $2.90 | 4.00 | 5.80 | ..... | 7.40 | 8.50 | 9.80 |

# BEEF AND HAM SLICERS

## BEEF SLICERS



No. **712**—Nichols', 12 x 1¼ inch Blade, Cocobolo Handle, Octagon Shape ..... per doz. $16.50
" **714**— " 14 x 1¼ " " " ..... " 19.80
" **716**— " 16 x 1¼ " " " ..... " 23.10

## HAM SLICERS



No. 78

No. **78**—Nichols', 10 inch Swaged Blade, Clip Point, Fancy Bolster, Ebony Handle ..... per doz. 9.90




No. 9701

No. **9701**—Turner's, 10 x ⅝ inch Blade, Rosewood Handle ..... per doz. 8.75
" **9701**— " 11 x ⅝ " " ..... " 11.25
" **9706**— " 10 x ⅝ " Clip Point, Celluloid Handle ..... " 16.90




No. 9714

No. **9714**—Turner's, 10 inch Blade, Stag Handle, German Silver Mounted ..... per doz. 28.35
" **9724**— " 10 " Clip Point, Stag Handle, as No. 9714 ..... " 32.40
" **9724**— " 12 " " " " ..... " 36.45

## TROWEL SHANK KNIVES AND FORKS




No. 9414

No. **9414**—Turner's, 12 inch, with Cockspur Fork, Stag Handle, G. S. Mounts ..... ..... per pair. 8.10
" **2427**—Rodgers', 10 inch, with Fork, Flat Ivory Handle ..... " 9.90

RICE LEWIS & SON LIMITED TORONTO, ONT.



| Nos. 5354 | 5454 | 5414 | 5384 | 2354 | 2364 |
|---|---|---|---|---|---|

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. 5354— | Wostenholm's, | 8 | inch | Blade, | Stag | Handle | | | | | | per pair | $1.45 |
| " 5454— | " | 9 | " | " | " | " | | | | | | " | 2.45 |
| " 5414— | " | 9 | " | " | " | " | E. P. Mounts | | | | | " | 3.35 |
| " 5384— | " | 9 | " | " | " | " | | | | | | " | 2.95 |
| " 5036— | " | 8 | " | Spanish Blade, | | Ivoroide Handle, | (Pattern as No. 2126, page 939) | | | | | " | 2.90 |
| " 5046— | " | 8 | " | " | " | " | (Pat. of Handle as | " | 2087SP, page 939) | | | " | 2.90 |
| " 5066— | " | 8 | " | " | " | " | " | (Pattern as | " | 2066, page 939) | | " | 3.10 |
| " 2354— | Rodgers', | 8 | " | " | " | Stag | " | E. P. Mounts | | | | " | 1.45 |
| " 2354— | " | 9 | " | " | " | " | " | " | " | | | " | 1.70 |
| " 2354— | " Game, | 6 | " | " | " | " | " | " | " | | | " | 1.45 |
| " 2364— | " | 9 | " | " | " | " | " | " | " | | | " | 3.40 |
| " 2364— | " Game, | 6 | " | " | " | " | " | " | " | | | " | 3.40 |




RICE LEWIS & SON
LIMITED

| Nos. 2394 | 2384 | 2374 | 2087SP | 2126 and 2077 | 2066 and 2067 | |
|---|---|---|---|---|---|---|
| No. 2394—Rodgers', | 9 inch, | Spanish Blade, | Stag Handle, | E. P. Mounts | per pair. | $4.45 |
| " 2384— " | 9 | " " | " " | " | " | 3.55 |
| " 2384— " | Game, 6 | " " | " " | " | " | 3.55 |
| " 2374— " | 9 | Saracenic " | " " | " | " | 3.55 |
| " 2374— " | Game, 6 | " " | " " | " | " | 3.55 |
| " 2087SP— " | 8 | Spear " | Ivory " | | " | 5.20 |
| " 2087— " | 8 | Spanish " | " " | Handle as No. 2087SP | " | 5.85 |
| " 2046— " | 8 | " " | Ivoroide " | " " | " | 2.85 |
| " 2046— " | Gam , 6 | " " | " " | " " | " | 2.85 |
| " 2126— " | 8 | " " | " " | | " | 2.50 |
| " 2077— " | 8 | " " | Ivory " | | " | 5.85 |
| " 2066— " | 8 | " " | Ivoroide " | | " | 3.00 |
| " 2067— " | 8 | " " | Ivory " | | " | 8.80 |
| " 2067— " | 9 | " " | " " | | " | 9.05 |
| " 2067— " | Game, 6 | " " | " " | | " | 8.80 |

# JOSEPH RODGERS & SONS' CARVERS

No. **2097**—Ivory Handle, 8 inch, Spanish Blade, (Handle as Table Knife No. 2097, page 953.....per pair $6.55
" **2097**— " " 9 " " " ( " " " " " ..... " 7.30
" **2097**— " " Game, 6 inch, Spanish Blade " " " " " ..... " 6.55
" **2103**—Buffalo Horn Handle, 8 inch, Spanish Blade, (Handle as Table Knife No. 2103, page 952.. " 2.15

## COLLINGS & WALLIS' CARVERS

No. **8036**—Ivoroide Handle, 8 inch, Spanish Blade, Pattern as No. 2126, page 939.....per pair 2.10
" **8046**— " " 8 " " " Handle " " 2087SP, page 939 ..... " 2.10

## THOMAS TURNER & CO.'S CARVERS




**No. 9354**

No. **9354**—8 inch, Encore Blade, Stag Handle .....per pair 1.70
" **9354**—9 " " " " " ..... ..... " 2.05



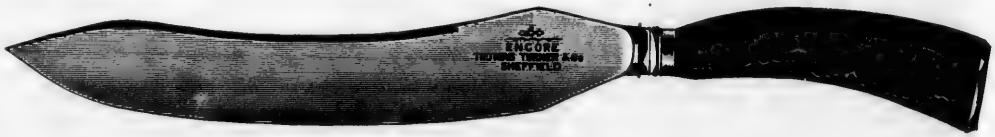

**No. 9454**

No. **9454**—8 inch, Encore Blade, Stag Handle .....per pair 2.20
" **9454**—9 " " " " " ..... " 2.55




**No. 9464**

No. **9464**—9 inch, Majestic Blade, Stag Handle .....per pair 2.55
" **9464**—10 " " " " " ..... " 2.90




**No. 9474**

No. **9474**—8 inch, Encore Blade, Stag Handle, E. P. Mounts .....per pair 3.05
" **9474**—9 " " " " " " " ..... " 3.25

# TURNER'S CARVERS



**No. 9524**

No. **9524**— 9 inch, Majestic Blade, Stag Handle, Sterling Silver Mounts.....per pair **$7.75**
" **9524**—10 " " " " " " " **8.10**
" **9524**—Game, 6 inch, " " " " " " " **7.75**



**No. 9534**

No. **9534**— 9 inch, Encore Blade, Stag Handle, E. P. Mounts.....per pair 3.40
" **9534**—10 " " " " " " " 3.70
" **9534**—Game, 6 inch, " " " " " " " 3.40



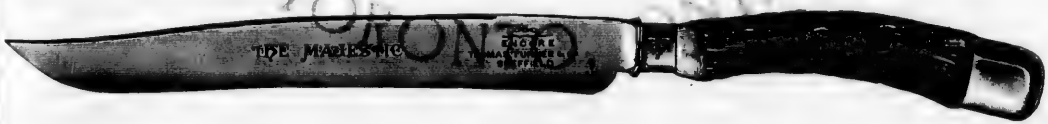

**No. 9514**

No. **9514**—9 inch, Encore Blade, Stag Handle, E. P. Mounts.....per pair 3.70



**No. 9504**

No. **9504**—9 inch, Baron Blade, Stag Handle, E. P. Mounts.....per pair 4.05




**No. 9564**

No. **9564**—10 inch, Majestic Blade, Stag Handle, Sterling Silver Mounts.....per pair 9.10
" **9564**—Game, 6 inch, " " " " " " " 9.10




**Nos. 9484 and 9494**

No. **9484**—9 inch, Encore Blade, Stag Handle, E. P. Mounts.....per pair 4.05
" **9494**—9 " " " " Sterling Silver Mounts.....per pair 6.75
" **9494**—Game, 6 inch, " " " " " " " 6.75

# TURNER'S CARVERS



**No. 9076**

No. **9076**—8 inch, Encore Blade, "Ivorygrain" Handle ..... per pair. $2.70
" **9076**—Game, 6 inch, Encore Blade, "Ivorygrain" Handle ..... " 2.70



**No. 9086**

No. **9086**—8 inch, Encore Blade, "Ivorygrain" Handle ..... per pair. 2.70
" **9086**—Game, 6 inch, Encore Blade, "Ivorygrain" Handle ..... " 2.70

No. 908
" 908



**No. 9067 and 9066**

No. **9067**—8 inch, Encore Blade, Ivory Handle ..... per pair. 5.40
" **9066**—8 " " "Ivorygrain" Handle ..... " 3.40
" **9066**—Game, 6 inch, Encore Blade, "Ivorygrain" Handle ..... " 3.40



**No. 9316 and 9317**

No. 916
" 916

No. **9317**—8 inch, Encore Blade, Ivory Handle ..... per pair. 6.75
" **9307**—8 " " " Lighter than No. 9317 ..... " 4.75
" **9316**—8 " " "Ivorygrain" Handle ..... " 3.70



**No. 9297**

No. **9297**—8 inch, Encore Blade, Ivory Handle, Sterling Silver Ferrule ..... per pair. 6.75
" **9286**—8 " " "Ivorygrain" Handle, Sterling Silver Ferrule ..... " 3.40
" **9286**—9 " " " " " ..... " 3.70
" **9286**—Game, 6 inch, Encore Blade, "Ivorygrain" Handle, Sterling Silver Ferrule ..... " 3.40
" **9327**—8 inch, Encore Blade, Ivory Handle (Handle as Table Knife No. 9327, page 957) ..... " 6.10
" **9326**—8 " " "Ivorygrain" Handle (Handle as Table Knife No. 9326, page 955 ... " 3.40
" **9337**—8 " " Ivory Handle (Handle as Table Knife No. 9337, page 957) ..... " 6.40
" **9347**—8½ " " " through Tang (Handle as Table Knife No. 9347, p. 956). " 6.75
" **9277**—8 " " " Sterling Silver Ferrule (Handle as Table Knife No. 9277, page 957) ..... " 7.00
" **9236**—Game, 6 inch, Encore Blade, "Ivorygrain" Handle, E. P. Mounts (Handle as Table Knife No. 9236, page 956) ..... " 7.10
" **9266**—Game, 6 inch Encore Blade, "Ivorygrain" Handle, Sterling Silver Ferrule (Handle as Table Knife No. 9266, page 955) ..... " 4.40
" **9428**—8 inch, Encore Blade, Pearl Handle, E. P. Ferrule (Handle as Table Knife No. 9428, page 958) ..... " 15 20
" **9438**—8 inch, Encore Blade, Pearl Handle, E. P. Ferrule (Handle as Table Knife No. 9438, page 958) ..... " 9.45

No. 926
" 926

# MEAT CARVERS IN CASES

One-quarter size cuts.

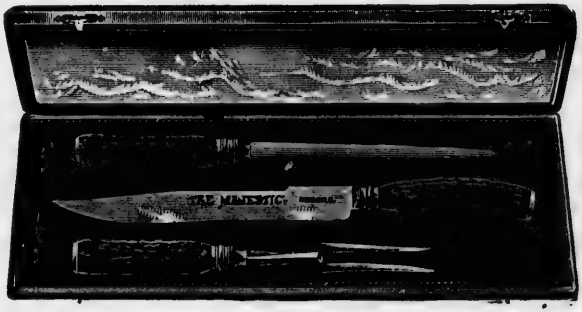


No. 906

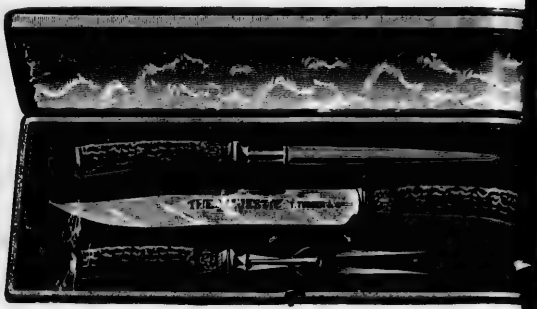
No. **906**—3 pieces, "Ivorygrain" Handles, Morocco Case, Silk and Plush Lined.....per case $ 5.50
" **906**—5 " " "

# MEAT CARVERS IN CASES

One-quarter size cuts.

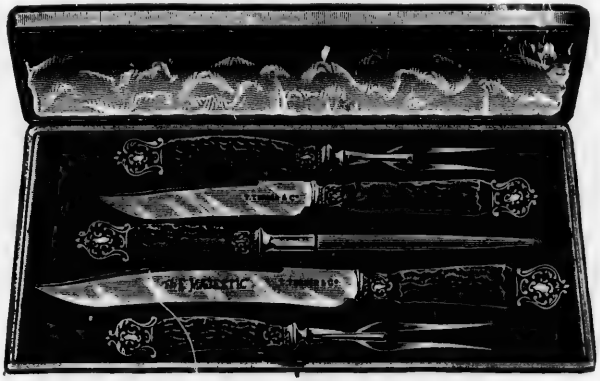


No. 934



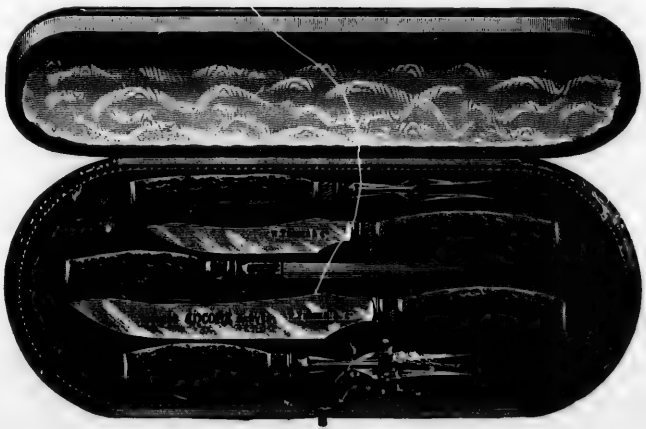
No. 944

No. **934**—3 pieces, Stag Handles, E. P. Mounts, Morocco Case, Silk and Plush Lined.....per case $ 6.25
" **944**—3 " " " " " " " " " " " " " 9.50
" **944**—5 " " " " " " " " " " " " " 15.50



No. 954

No. **954**—3 pieces, Stag Handles, E. P., Mounts, Morocco Case, Silk and Plush Lined.....per case 12.25
" **954**—5 " " " " " " " " " " " " " 20.00



No. 964

Per Case
No. **964**—3 pieces, Black Forest Stag Handles, Sterling Silver Mounts, Morocco Case, Silk and Plush Lined 20.00
" **964**—5 " " " " " " " " " " 31.50

# BUTCHERS' STEELS

## JOSEPH RODGERS & SONS'




**No. 2604**

| | 9 | 10 | 12 inch. |
|---|---|---|---|
| Length | | | |
| No. **2604**—Stag Handle, Iron Ring and Swivel.....per doz. | $11.70 | 12.55 | 18.25 |




**No. 2614**

| | 12 | 14 inch. |
|---|---|---|
| Length | | |
| No. **2614**—Stag Handle, Brass Ring and Ferrule.....per doz. | 33 25 | 38.95 |




**No. 2621**

| | 9 | 10 | 12 | 14 inch. |
|---|---|---|---|---|
| Length | | | | |
| No. **2621**—Boxwood Handle, Brass Ring and Ferrule.....per doz. | 11.00 | 13.10 | 17.70 | 21.95 |

## ASKHAM'S BUTCHERS' STEELS



**No. 515**

| | 12 | 14 inch. |
|---|---|---|
| Length | | |
| No. **515**—Stag Handle, Iron Ring and Swivel.....per doz. | 9.55 | 12.55 |



**No. 502**

| | 10 | 12 inch. |
|---|---|---|
| Length | | |
| No. **502**—Rosewood Handle, Iron Ring and Swivel.....per doz. | 10.75 | 12.75 |

## LEE'S BUTCHERS' STEELS



| | 10 | 12 | 14 inch. |
|---|---|---|---|
| Length | | | |
| No. **102**—Beechwood Handle, Tinned Iron Swivel.....per doz. | 11.00 | 13.50 | 17.00 |

Are made from the best quality of tool steel and are hardened by a process that makes "soft spots" impossible. The edges are formed [illegible]00 deep narrow teeth, extending without break from heel to point.




No. 2114 | No. 2374 | No. 2097 | No. 2067 and 2066

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| No | **2114**— | Rodgers', | 7 | inch, | Plain Stripped Steel, | Stag | Handle | per doz. | $6.05 |
| " | **2354**— | " | 8 | " | " | " | (Heavy, Flat End) | " | 7.10 |
| " | **2374**— | " | 8 | " | " | " | E. P. Ferrule | " | 21.95 |
| " | **2384**— | " | 8 | " | " | Patn. of Handle as Carver No. 2384, on page 939 | | " | 21.95 |
| " | **2394**— | " | 8 | " | " | " | " " 2394, " 939 | " | 27.60 |
| " | **2097**— | " | 8 | " | " | Ivory Handle (Flat, Round End) | | " | 23.80 |
| " | **2067**— | " | 8 | " | " | " | | " | 33.45 |
| " | **2066**— | " | 8 | " | " | Ivoroide Handle | | " | 9.55 |
| " | **2077**— | " | 8 | " | " | Ivory | " Patn. of Handle as Carver No. 2077, p. 939 | " | 22.30 |
| " | **2046**— | " | 8 | " | " | Ivoroide | " " " " No. 2067SP, p. 939 | " | 8.50 |
| " | **2103**— | " | 8 | " | " | Horn | " " " Table Knife No. 2103, p. 952 | " | 7.10 |

# TURNER'S TABLE STEELS



**No. 9454½, ENCORE BLADE**

No. **9454**—8 inch, Plain Stripped Steel, Stag Handle ..... per doz. $10.15
" **9454½**—8 " Encore " " ..... " 16 20



**No. 9474½, ENCORE BLADE**

No. **9474**—8 inch, Plain Stripped Steel, Stag Handle, E. P. Mounts ..... per doz. 18.25
" **9474½**—8 " Encore " " " " ..... " 24.30
" **9524½**—8 " " " " Sterling Silver Mounts (Pattern of Handle as Carver No. 9524, page 941) ..... per doz. 52.65
" **9514½**—8 inch, Encore Steel, Stag Handle, E. P. Mounts (Pattern of Handle as Carver No. 9514, page 941) ..... per doz. 22.30



**No. 9484½ and 9494½, ENCORE BLADE**

No. **9484½**—8 inch, Encore Steel, Stag Handle, E. P. Mounts ..... per doz. 22.30
" **9494½**—8 " " " " " Sterling Silver Mounts ..... " 58.75



**No. 9564½, ENCORE BLADE**

No. **9564½**—8 inch, Encore Steel, Stag Handle, Sterling Silver Mounts ..... per doz. 36.45



**No. 9076½, ENCORE BLADE**

No. **9076** -8 inch, Plain Stripped Steel, "Ivorygrain" Handle (Pattern of Handle as No. 9076½) ... per doz. 12.15
" **9076½** -8 inch, Encore Steel, "Ivorygrain" Handle ..... " 18.25
" **9086**—8 inch, Plain Stripped Steel, "Ivorygrain" Handle (Pattern of Handle as Carver No. 9086, on page 942) ..... per doz. 12.15

For Pattern of Blade of Plain Stripped Steel refer to page 916.

# TURNER'S TABLE STEELS



**No. 9066½, ENCORE BLADE**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No. **9066** | —8 inch, | Plain Stripped Steel, | "Ivorygrain" Handle | (Pattern of Handle as No. 9066½) | per doz. | $14.20 |
| " **9066½** | —8 " | Encore " | " " | ..... | " | 20.25 |
| " **9067** | —8 " | Plain Stripped " | Ivory " | (Pattern of Handle as No. 9066½) | " | 24.30 |
| " **9316** | —8 " | " " | "Ivorygrain" " | (Pattern of Handle as Carver No. 9316, on page 942) | " | 16.20 |
| " **9317** | —8 " | " " | Ivory " | (Pattern of Handle as Carver No. 9317, on page 942) | " | 32.40 |
| " **9326** | —8 " | " " | "Ivorygrain" " | (Pattern of Handle as Table Knife No. 9326, on page 955) | " | 14.20 |
| " **9327** | —8 " | " " | Ivory " | (Pattern of Handle as Table Knife No. 9327, on page 957) | " | 24.30 |



**No. 9347½, ENCORE BLADE**

| | | | | |
|---|---|---|---|---|
| No. **9347½** | —8 inch, | Encore Steel, Ivory Handle | per doz. | 36.45 |
| " **9337** | —8 " | Plain Stripped Steel, Ivory Handle (Pattern of Handle as Table Knife No. 9337, on page 957) | " | 26.35 |



**No. 9297½ and 9286½, ENCORE BLADE**

| | | | | | |
|---|---|---|---|---|---|
| No. **9297½** | —8 inch, | Encore Steel, Ivory Handle, Sterling Silver Mounts | per doz. | 42.55 |
| " **9286½** | —8 " | " "Ivorygrain" Handle, Sterling Silver Mounts | " | 22.30 |
| " **9286** | —8 " | Plain Stripped Steel, "Ivorygrain" Handle, Sterling Silver Mounts (Pattern of Handle as No. 9286½) | " | 16.20 |
| " **9277** | —8 " | " " Ivory Handle, Sterling Silver Mounts (Pattern of Handle as Table Knife No. 9277, page 957) | " | 32.40 |
| " **9277½** | —8 " | Encore Steel, Ivory Handle, Sterling Silver Mounts (Pattern of Handle as Table Knife No. 9277, page 957) | " | 38.50 |



**No. 9428½, ENCORE BLADE**

| | | | | | |
|---|---|---|---|---|---|
| No. **9428½** | —8 inch, | Encore Steel, Pearl Handle, E. P. Mounts | per doz. | 64.80 |
| " **9438½** | —8 " | " " " Smaller Handle | " | 40.50 |

For Pattern of Blade of Plain Stripped Steel refer to page 946.

# TABLE CUTLERY

## IDEAL TABLE AND DESSERT KNIVES AND FORKS

Two-thirds size cut of Table Knives.




No. 13

| | | | |
|---|---|---|---|
| No. **13**—Rosewood Handle, Table Knives and Cast Forks | per doz. | $2.00 |
| " **23**—Ebony " " " | " | 2.05 |



No. 24

| | | | |
|---|---|---|---|
| No. **14**—Rosewood Handle, Table Knives and Cast Forks | per doz. | 2.05 |
| " **14**— " " Dessert " " | " | 2.05 |
| " **14**— " " Table Knives only | " | 1.40 |
| " **24**—Ebony " " " and Cast Forks | " | 2.10 |
| " **24**— " " Dessert " " | " | 2.10 |
| " **24**— " " Table Knives only | " | 1.5 |

## ASKHAM'S TABLE AND DESSERT KNIVES AND FORKS

Two-thirds size cuts of Table Knives.




No. 1751

| | | | |
|---|---|---|---|
| No. **1751**—Rosewood Handle, Table Knives and Steel Forks | per doz. | 2.75 |
| " **1751**— " " Dessert " " | " | 2.75 |
| " **2751**—Ebony " Table " " | " | 2.80 |
| " **2751**— " " Dessert " " | " | 2.80 |
| " **3751**—White Bone " Table " " | " | 3.15 |
| " **3751**— " " Dessert " " | " | 3.15 |




No. 2186

| | | | |
|---|---|---|---|
| No. **1186**—Rosewood Handle, Table Knives and Steel Forks | per doz. | 3.25 |
| " **1186**— " " Dessert " " | " | 3.25 |
| " **2186**—Ebony " Table " " | " | 3.35 |
| " **2186**— " " Dessert " " | " | 3.35 |




No. 1191

| | | | |
|---|---|---|---|
| No. **1191**—Rosewood Handle, Table Knives and Steel Forks | per doz. | 3.80 |
| " **2191**—Ebony " " " | " | 3.85 |

# ASKHAM'S TABLE AND DESSERT KNIVES AND FORKS

**Two-thirds size cuts of Table Knives.**




**No. 1902**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. **1902**—Rosewood Handle, | Table Knives and Steel Forks | | | | | per doz. | $3.30 |
| " **1902**— " " | Dessert " | " | " | | | " | 3.30 |
| " **2902**—Ebony " | Table " | " | " | | | " | 3.35 |
| " **2902**— " " | Dessert " | " | " | | | " | 3.35 |
| " **3902**—White Bone " | Table " | " | " | | | " | .... |
| " **3902**— " " | Dessert " | " | " | | | " | .... |




**No. 1905**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. **1905**—Rosewood Handle, | Table Knives and Steel Forks | | | | | per doz. | 3.70 |
| " **1905**— " " | Dessert " | " | " | | | " | 3.70 |
| " **2905**—Ebony " | Table " | " | " | | | " | 3.75 |
| " **2905**— " " | Dessert " | " | " | | | " | 3.75 |
| " **3905**—White Bone " | Table " | " | " | | | " | .... |
| " **3905**— " " | Dessert " | " | " | | | " | .... |




**No. 1762**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. **1762**—Rosewood Handle, | Table Knives and Steel Forks | | | | | per doz. | 3.50 |
| " **1762**— " " | Dessert " | " | " | | | " | 3.50 |
| " **2762**—Ebony " | Table " | " | " | | | " | 3.60 |
| " **2762**— " " | Dessert " | " | " | | | " | 3.60 |




**No. 1919**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. **1919**—Rosewood Handle, | Table Knives and Steel Forks | | | | | per doz. | 4.00 |
| " **2919**—Ebony " | " | " | " | | | " | 4.10 |



**No. 2008**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. **1008**—Rosewood Handle, | Table Knives and Steel Forks | | | | | per doz. | 3.50 |
| " **1008**— " " | Dessert " | " | " | | | " | 3.50 |
| " **2008**—Ebony " | Table " | " | " | | | " | 3.55 |
| " **2008**— " " | Dessert " | " | " | | | " | 3.55 |




**No. 2932**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. **1932**—Rosewood Handle, | Table Knives and Steel Forks | | | | | per doz. | 3.45 |
| " **1932**— " " | Dessert " | " | " | | | " | 3.45 |
| " **2932**—Ebony " | Table " | " | " | | | " | 3.50 |
| " **2932**— " " | Dessert " | " | " | | | " | 3.50 |

# ASKHAM'S TABLE AND DESSERT KNIVES AND FORKS

Two-thirds size cuts of Table Knives.



No. 2935

No. **1935**—Rosewood Handle, Table Knives and Steel Forks ..... per doz. $3.85
" **2935**—Ebony " " " " ..... " 3.90



No. 5809

No. **5809**—Buffalo Horn Handle, Table Knives and Steel Forks ..... per doz. 5.95
" **5809**— " " Dessert " " ..... " 5.95



No. 976. Two-thirds size cut.

No. **976**—Rosewood Handle, Moits with Cast Forks ..... per doz. 1.95
" **977**—Ebony " " " ..... " 1.95
" **978**—White Bone " " " ..... " 2.10



No. 1919. Two-thirds size cut of Table Fork.

Showing style of Fork supplied with Ideal and Askham's Table Cutlery.

## WILTON'S TABLE KNIVES AND FORKS




No. 8108. Half size cut.

No. **8108**—Iron Handle, Table Knives and Steel Forks ..... per doz. 1.65

# JOSEPH RODGERS & SONS'

## TABLE AND DESSERT KNIVES AND FORKS.

Two-thirds size cuts of Table Knives.



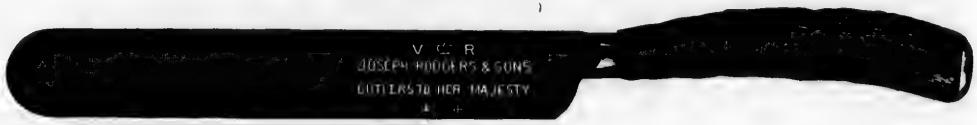

**No. 2572**

| | | | | | |
|---|---|---|---|---|---|
| No. **2571**—Rosewood Handles, | Table Knives and Steel Forks | | | per doz. | $3.85 |
| " **2571**— " " | Dessert " " " | | | " | 3.30 |
| " **2572**—Ebony " | Table " " " | | | " | 3.35 |
| " **2572**— " " | Dessert " " " | | | " | 3.30 |




**No. 2103**

| | | | | | |
|---|---|---|---|---|---|
| No. **2103**—Buffalo Horn Handle, | Table Knives and Steel Forks | | | per doz. | 8.50 |
| " **2103**— " " " | Dessert " " " | | | " | 6.90 |
| " **2103**— " " " | Table Knives only | | | " | 4.95 |
| " **2103**— " " " | Dessert " " | | | " | 3.75 |




**No. 2114**

| | | | | | |
|---|---|---|---|---|---|
| No. **2114**—Stag Handle, | Table Knives and Steel Forks | | | per doz. | 6.40 |
| " **2114**— " " | Dessert " " " | | | " | 5.85 |
| " **2114**— " " | Table Knives only | | | " | 4.05 |
| " **2114**— " " | Dessert " | | | " | 3.55 |

## TABLE AND DESSERT KNIVES ONLY




**No. 2046**

| | | | | | |
|---|---|---|---|---|---|
| No. **2046**—3⅜ inch, | Ivoroide Handle, | Table Knives | | per doz. | 7.45 |
| " **2046**—3¼ " | " " | Dessert " | | " | 6.00 |




**No. 2066**

| | | | | | |
|---|---|---|---|---|---|
| No. **2066**—4 inch, | Ivoroide Handle, | Table Knives | | per doz. | 7.95 |
| " **2066**—3⅞ " | " " | Dessert " | | " | 6.55 |

# JOSEPH RODGERS & SONS'

## IVORY HANDLE TABLE AND DESSERT KNIVES

To-thirds size cuts of Table Knives.



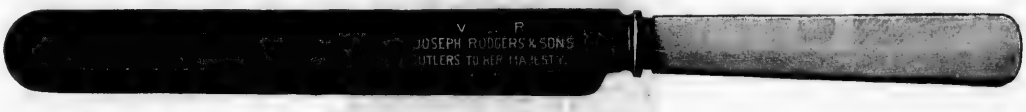

**No. 2087**

| | | | | | | |
|---|---|---|---|---|---|---|
| No. **2087**—3⅞ | inch, | Ivory Handle, | Table Knives | | per doz. | $10.35 |
| " **2087**—3 | " | " | Dessert | " | " | 11.15 |
| " **2017**—3⅞ | " | " | Table | " | " | 11.90 |
| " **2017**—3 | " | " | Dessert | " | " | 10.80 |




**No. 2077**

| | | | | | | |
|---|---|---|---|---|---|---|
| No. **2077**—3⅞ | inch, | Ivory Handle, | Table Knives | | per doz. | 16.35 |
| " **2077**—3 | " | " | Dessert | " | " | 11.15 |
| " **2027**—3⅞ | " | " | Table | " | " | 11.90 |
| " **2027**—3 | " | " | Dessert | " | " | 10.80 |




**No. 2097**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No. **2097** —3⅞ | inch, | Ivory Handle (Flat, Round End), | | | Table Knives | | per doz. | 17.45 |
| " **2097** —3 | " | " | " | " | Dessert | " | " | 12.25 |
| " **2097½**—3⅞ | " | " | " | " | Table | " Silver Plated Blades | " | 20.80 |
| " **2097½**—3 | " | " | " | " | Dessert | " " " | " | 13.75 |




**No. 2067**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. **2067** —4 | inch, | Ivory Handle, | Table Knives | | | per doz. | 25.25 |
| " **2067** —3⅞ | " | " | Dessert | " | | " | 19.10 |
| " **2067½**—4 | " | " | Table | " | Silver-Plated Blades | " | 28.60 |
| " **2067½**—3⅞ | " | " | Dessert | " | " " | " | 21.55 |
| " **2057** —4 | " | " | Table | " | | " | 19.70 |
| " **2057** —3¼ | " | " | Dessert | " | | " | 13.00 |

All numbers except 2017, 2027, and 2057, are Best Selected Ivory.

## GEORGE WOSTENHOLM & SONS' TABLE AND DESSERT KNIVES

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| No. **5036**—3⅞ | inch, | Ivoroide Handle, | Table Knives | (Pattern as No. | 8036, | page 954) | | per doz. | $7.60 |
| " **5036**—3¼ | " | " | Dessert | " | " | " | 8036, | " 954) | " | 6.10 |
| " **5046**—3¼ | " | " | Table | " | " | " | 8046, | " 954) | " | 7.60 |
| " **5046**—3¼ | " | " | Dessert | " | " | " | 8046, | " 954) | " | 6.10 |
| " **5066**—4 | " | " | Table | " | " | " | 2066, | " 952) | " | 8.10 |
| " **5066**—3⅞ | " | " | Dessert | " | " | " | 2066, | " 952) | " | 6 70 |

# COLLINGS & WALLIS'

## IVOROIDE HANDLE TABLE AND DESSERT KNIVES

Two-thirds size cuts of Table Knives.



No. 8066

| | | | |
|---|---|---|---|
| No. 8066—3⅞ inch, Ivoroide Handle, Table Knives | per doz. | $4.30 |
| " 8066—3⅜ " " " Dessert " | " | 3.90 |



No. 8046

| | | | |
|---|---|---|---|
| No. 8016—3⅞ inch, Ivoroide Handle, Table Knives | per doz. | 4.30 |
| " 8016—3⅜ " " " Dessert " | " | 3.90 |
| " 8046—3⅞ " " " Table " | " | 6.00 |
| " 8046—3⅜ " " " Dessert " | " | 4.50 |



No. 8036

| | | | |
|---|---|---|---|
| No. 8036—3⅞ inch, Ivoroide Handle, Table Knives | per doz. | 6.00 |
| " 8036—3⅜ " " " Dessert " | " | 4.50 |

## THOMAS TURNER & CO.'S

### "IVORYGRAIN" HANDLE TABLE AND DESSERT KNIVES

Half size cuts of Table Knives.



No. 9076

| | | | |
|---|---|---|---|
| No. 9076—3⅞ inch, "Ivorygrain" Handle, Table Knives | per doz. | 6.25 |
| " 9076—3⅜ " " " " Dessert " | " | 5.50 |
| " 9076½—3⅜ " " " " " Silver-Plated Blades | " | 8.10 |



No. 9086

| | | | |
|---|---|---|---|
| No. 9086—3⅞ inch, "Ivorygrain" Handle, Table Knives | per doz. | 6.25 |
| " 9086—3⅜ " " " " Dessert " | " | 5.50 |
| " 9086½—3⅜ " " " " " Silver-Plated Blades | " | 8.10 |



No. 9066

| | | | |
|---|---|---|---|
| No. 9066—4 inch, "Ivorygrain" Handle, Table Knives | per doz. | 8.45 |
| " 9066—3⅞ " " " " Dessert " | " | 7.05 |
| " 9066½—3⅞ " " " " " Silver-Plated Blades | " | 9.80 |

# TURNER'S TABLE AND DESSERT KNIVES

**Half size cuts of Table Knives.**



**No. 9246**

No. **9246**—4½ inch, "Ivorygrain" Handle, Table Knives ..... per doz. $8.45
" **9246**—3⅞ " " " " Dessert " ..... " 7.05
" **9246½**—3⅞ " " " " " Silver-Plated Blades ..... " 9.80



**No. 9256.** Two-thirds size cut of Table Knife.

No. **9256**—4½ inch, "Ivorygrain" Handle, Table Knives ..... per doz. 8.45
" **9256**—3⅞ " " " " Dessert " ..... " 7.05



**No. 9326**

No. **9326**—4 inch, "Ivorygrain" Handle, Table Knives ..... per doz. 8.45
" **9326**—3⅜ " " " " Dessert " ..... " 7.05



**No. 9316**

No. **9316**—4½ inch, "Ivorygrain" Handle, Table Knives ..... per doz. 10.80
" **9316**—3⅞ " " " " Dessert " ..... " 8.10



**No. 9266**

No. **9266**—4½ inch, "Ivorygrain" Handle, Sterling Silver Ferrule, Table Knives ..... per doz. 11.85
" **9266**—4 " " " " " " Dessert " ..... " 10.15

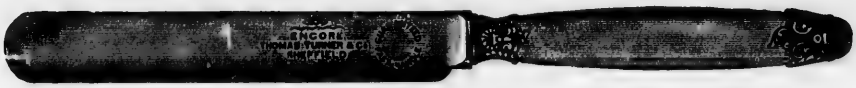


**No. 9286**

No. **9286**—4½ inch "Ivorygrain" Handle, Sterling Silver Ferrule, Table Knives ..... per doz. 9.80
" **9286**—3⅞ " " " " " Dessert " ..... " 8.45

# TURNER'S TABLE AND DESSERT KNIVES

**Half size cuts of Table Knives.**




**No. 9236**

| | | |
|---|---|---|
| No. **9236**—5½ inch, "Ivorygrain" Handle, E. P. Mounts, Table Knives | per doz. | $22.30 |
| " **9236**—4⅛ " " " Dessert " | " | 19.00 |

## TURNER'S IVORY HANDLE TABLE AND DESSERT KNIVES.




**No. 9067**

| | | |
|---|---|---|
| No. **9067**—4 inch, Ivory Handle, Table Knives | per doz. | 16.55 |
| " **9067**—3⅜ " " Dessert " | " | 13.20 |




**No. 9247**

| | | |
|---|---|---|
| No. **9247**—4½ inch, Ivory Handle, Table Knives | per doz. | 17.25 |
| " **9247**—3⅜ " " Dessert " | " | 13.50 |




**No. 9317**

| | | |
|---|---|---|
| No. **9317**—4¼ inch, Ivory Handle, Table Knives | per doz. | 25.65 |
| " **9317**—3⅜ " " Dessert " | " | 18.25 |
| " **9307**—4 " " Table " | " | 16.20 |
| " **9307**—3⅜ " " Dessert " | " | 13.00 |




**No. 9347**

| | | |
|---|---|---|
| No. **9347**—4¼ inch, Ivory Handle, Through Tang, Table Knives | per doz. | 23.65 |
| " **9347**—3½ " " " Dessert " | " | 17.55 |

# TURNER'S TABLE AND DESSERT KNIVES

**Two-thirds size cuts of Table Knives.**




**No. 9257**

| | | | | |
|---|---|---|---|---|
| No. **9257**—4½ inch, Ivory Handle, Table Knives | per doz. | $17.25 |
| " **9257**—3⅞ " " " Dessert " | " | 13.50 |




**No. 9337**

| | | | | |
|---|---|---|---|---|
| No. **9337**—4½ inch, Ivory Handle, Table Knives | per doz. | 19.60 |
| " **9337**—3½ " " " Dessert " | " | 16.20 |



**No. 9327**

| | | | | |
|---|---|---|---|---|
| No. **9327**—4 inch, Ivory Handle, Table Knives | per doz. | 18.90 |
| " **9327**—3⅜ " " " Dessert " | " | 15.55 |

**Half size cuts of Table Knives.**




**No. 9277**

| | | | | |
|---|---|---|---|---|
| No. **9277**—4½ inch, Ivory Handle, Sterling Silver Ferrule, Table Knives | per doz. | 22.90 |
| " **9277**—3⅜ " " " " " Dessert " | " | 18.25 |



**No. 9297**

| | | | | |
|---|---|---|---|---|
| No. **9297**—4½ inch, Ivory Handle, Sterling Silver Ferrule, Table Knives | per doz. | 22.80 |
| " **9297**—3⅜ " " " " " Dessert " | " | 18.25 |

# TURNER'S TABLE AND DESSERT KNIVES




**No. 9428.** Half size cut of Table Knife.

No. **9428**—3⅛ inch Pearl Handle, Heavy E. P. Ferrule, Table Knives ..... per doz. $52.65
" **9428**—3 " " " " Dessert Knives ..... " 32.40




**No. 9438.** Two-thirds size cut of Table Knife.

No. **9438**—3½ inch. Pearl Handle, Sterling Silver Ferrule, Table Knives ..... per doz. 29.70
" **9438**—2¾ " " " " Dessert Knives ..... " 19.80




**No. 9438½.** Two-thirds size cut of Table Knife.

No. **9438½**—3⅛ inch, Pearl Handle, Sterling Silver Ferrule, Dessert Knives, Silver-Plated Blades ... per doz. 32.40

## "CHIPPENDALE" COMBINATION CASE



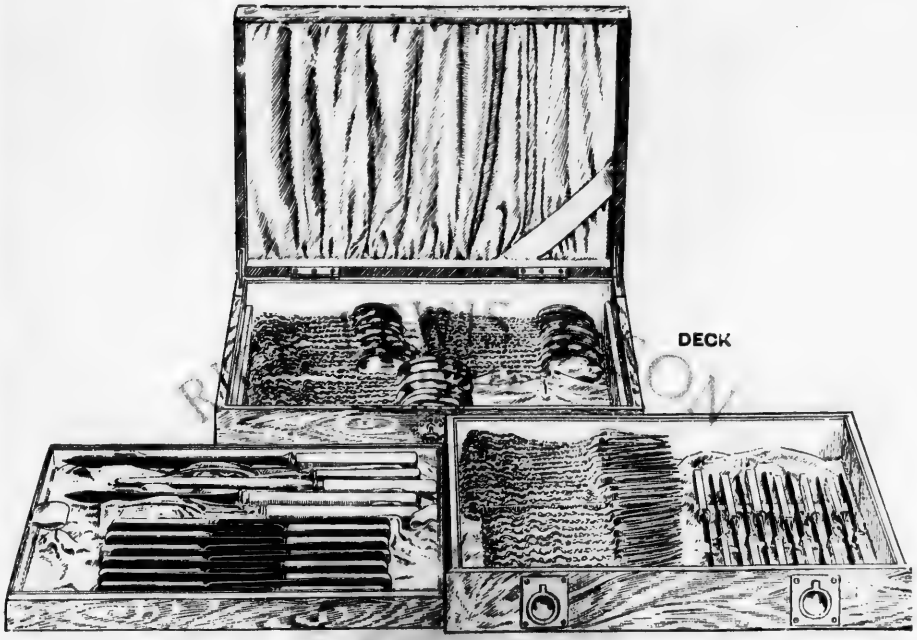
**No. 9006.** One-quarter size cut.

No. **9006**—Antique Oak Case, containing 1 dozen Oval "Ivorygrain" Handle Table Knives, 1 dozen Dessert Knives, 1 pair Meat Carvers, 1 pair Game Carvers, 1 Steel, 1 dozen E. P. Table Forks, 1 dozen E. P. Dessert Forks. Per case ..... $65.00

No. **9016**—Antique Oak Case, containing ½ dozen "Ivorygrain" Handle Table Knives, ½ dozen Dessert Knives, 1 pair Meat Carvers, 1 pair Game Carvers, 1 Steel, ½ dozen E. P. Table Forks, ½ dozen E. P. Dessert Forks ..... per case 45.00

No. **9027**—Walnut Case, pattern as No. 9006 with extra Folding Leaf, containing 1 dozen Oval Ivory Handle, Through Tang, Table Knives, 1 dozen Dessert Knives, 1 pair Meat Carvers, 1 pair Game Carvers, 1 Encore Steel, 2 E. P. Knife Rests, 1 dozen Old English E. P. Table Forks, 1 dozen Dessert Forks ... per case 100.00

# CUTLERY CABINETS




PHOTOGRAPHIC REPRODUCTION
TORONTO, ONT.

## DECK AND TRAY

No. **A**—Size 15¼ x 12⅜ x 4 inches inside.
Fitted for

| | | | |
|---|---|---|---|
| 12 Table Spoons. | 12 Tea Spoons. | 12 Dessert Forks. | 12 Dessert Knives. |
| 12 Dessert " | 12 Coffee " | 12 Medium " | 12 Table " |

Price, Natural Finished Wood, Satin Lined. ..... (Cabinet only) each $22.00

## DECK AND DRAWER

No. **B**—Size 15¼ x 12⅜ x 4 inches inside.
Fitted for

| | | | |
|---|---|---|---|
| 12 Table Spoons. | 12 Tea Spoons. | 12 Dessert Forks. | 12 Dessert Knives. |
| 12 Dessert " | 12 Coffee " | 12 Medium " | 12 Table " |

Price, Natural Finished Wood, Satin Lined. ..... (Cabinet only) each 24.00

## DECK, TRAY AND DRAWER

No. **C**—Size 15¼ x 12⅜ x 6½ inches inside.
Fitted for

| | | | |
|---|---|---|---|
| 1 Pair Carvers. | 12 Dessert Knives. | 12 Coffee Spoons, | 12 Dessert Forks. |
| 1 " Game Carvers. | 1 Sugar Shell. | 12 Tea " | 12 Medium " |
| 1 Steel. | 1 Butter Knife. | 12 Dessert " | 1 Mustard Spoon. |
| 12 Medium Knives. | 2 Salt Spoons. | 12 Table " | |

Price, Natural Finished Wood, Satin Lined. ..... (Cabinet only) each 30.00

**Oak Usually Kept in Stock.**

# CUTLERY CABINETS



**DECK AND ONE DRAWER**

**No. D—Size 16½ x 15½ x 8, inside.**
**Fitted for:**

| | | | |
|---|---|---|---|
| 12 Table Knives. | 12 Table Spoons. | 1 Mustard Spoon. | 1 Cream Ladle. |
| 12 Dessert " | 12 Dessert " | 1 Sugar " | 1 Soup " |
| 12 Table Forks. | 12 Tea " | 1 Sugar Tong. | |
| 12 Dessert " | 2 Salt " | 1 Butter Knife. | |

**Price, Natural Finished Wood, Satin Lined.....(Cabinet only) each $34.00**



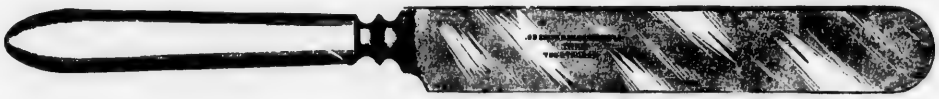
**DECK AND TWO DRAWERS**

**No. E—Size 22 x 16 x 10 inch, inside.**
**Fitted for:**

| | | | |
|---|---|---|---|
| 1 Pair Carvers. | 12 Dessert Knives. | 12 Coffee Spoons. | 1 Gravy Ladle. |
| 1 " Game Carvers. | 12 Table Forks. | 2 Salt " | 2 Soup Ladles. |
| 1 Steel. | 12 Dessert " | 1 Mustard Spoon. | 2 Nut Crackers. |
| 1 Pair Fish Carvers. | 12 Table Spoons. | 1 Sugar " | 12 Nut Picks. |
| 1 Bread Knife. | 12 Dessert " | 1 Sugar Tong. | |
| 12 Table Knives. | 12 Tea " | 1 Cheese Scoop. | |

**Price, Natural Finished Wood, Satin Lined.....(Cabinet only) each 58.00**

# SILVER-PLATED KNIVES AND FORKS



**WINDSOR PATTERN**

**Knives Only.**

| | | | |
|---|---|---|---|
| No. **393**—T.S.P., Windsor Pattern, Silver-Plated Table Knives only, 12 dwt. | per doz. | $6.00 |
| " **393**— " " " Dessert " 12 " | " | 6.00 |
| " **396**— " " " Table " 16 " | " | 8.00 |
| " **396**— " " " Dessert " 16 " | " | 8.00 |

PRICE LEWIS & SON LIMITED



**No. 12, ROUND END**

| | | |
|---|---|---|
| | | Per set. |
| No. **12**—Rogers Bros'., Round End, Silver-Plated Table Knives and Forks, 12 dwt. (6 Knives and 6 Forks) | | 7.50 |
| " **12**— " " " Dessert " " 12 " " " " | | 7.50 |
| | | Per doz. |
| " **12**— " " " Table Knives only, 12 dwt. | | 7.00 |
| " **12**— " " " Dessert " 12 " | | 7.00 |
| " **391**—T.S.P., Square End, Silver-Plated Table Knives only, 12 dwt. | | 6.00 |
| " **391**— " " " Dessert " 12 " | | 6.00 |
| " **112**—Sheffield, " " Table " | | 2.20 |
| " **112**— " " " Dessert " | | 2.20 |

TORONTO, ONT.



**SHELL PATTERN**

| | | |
|---|---|---|
| | | Per set. |
| No. **212**—Shell Pattern, Rogers Bros'., Silver-Plated Table Knives and Forks, 12 dwt. (6 Knives and 6 Forks) | | 8.50 |
| " **212**— " " " Dessert " " 12 " " " " | | 7.80 |

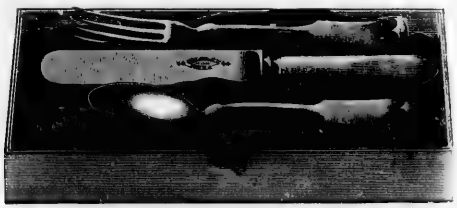
# CHILD'S SETS



No. 1894



RICHMOND



No. 192

No. 1894—Steel, Tin-Plated and Burnished.....per doz. sets $2 00
Richmond, " Silver-Plated ..... " " 4.00
No. 192—Tipped, Roger Bros., Silver-Plated, 12 dwt.....per set 2 10

# TURNER'S DESSERT KNIVES AND FORKS

Two-thirds size cuts.



**No. 9676**

No. **9676**—"Ivorygrain" Handle, Steel Blades, Silver-Plated, not in case.....per doz. **$16.25**




**No. 9686**

No. **9686**—"Ivorygrain" Handle, Steel Blades, Silver-Plated, in Walnut Case, 12 pairs.....per case 23.75



**No. 9696**

No. **9696**—"Ivorygrain" Handle, Nickel Blades, Silver-Plated, not in case.....per doz. 24.50



**No. 9707**

No. **9707**—Ivory Handle, Nickel Blades, Silver-Plated, E. P. Ferrules, in Walnut Case, 12 pairs...per case 37.50



**No. 9717**

No. **9717**—Ivory Handle, Nickel Blades, Silver-Plated, E. P. Ferrules, in Walnut Case, 6 pairs....per case 24 00
" **9717**— " " " " " " " 12 " .... " 43.00



**Nos. 9728 and 9728**

No. **9728**—"Ivorygrain" Handle, Nickel Blades, Silver-Plated, E.P. Ferrules, in Walnut Case, 12 pairs, per case 36.50
" **9728**—Pearl " " " " " " 12 " " 43.00
" **9728**— " " " " " not in case.....per doz. 36.50

# TURNER'S DESSERT KNIVES AND FORKS

Two-thirds size cuts.



No. 9738

No. **9738**—Pearl Handle, Nickel Blades, Silver-Plated, E. P. Ferrules, not in case ..... .....per doz. $43.00

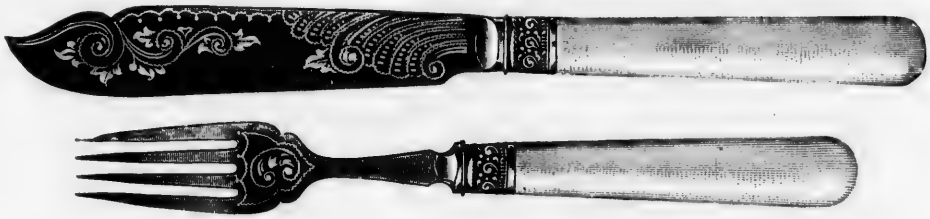


No. 9748

No. **9748**—Pearl Handle, Nickel Blades, Silver-Plated, E. P. Ferrules, in Walnut Case, 12 pairs...per case 46.00

## TURNER'S FISH KNIVES AND FORKS

Two-thirds size cuts.

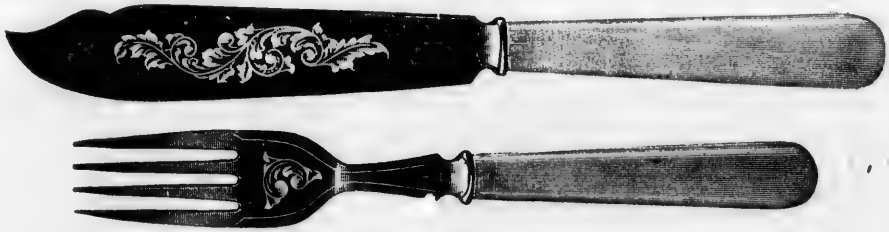


No. 9426

No. **9426**—"Ivorygrain" Handles, Nickel Blades, Silver-Plated, E. P. Ferrules, in Walnut Case, 6 pairs, per case ..... 23.65

" **9426**—"Ivorygrain" Handles, Nickel Blades, Silver-Plated, E. P. Ferrules, in Walnut Case, 12 pairs, per case ..... 43.00

" **9426**—"Ivorygrain" Handles, Nickel Blades, Silver-Plated, E. P. Ferrules, not in case.....per doz. 31.75

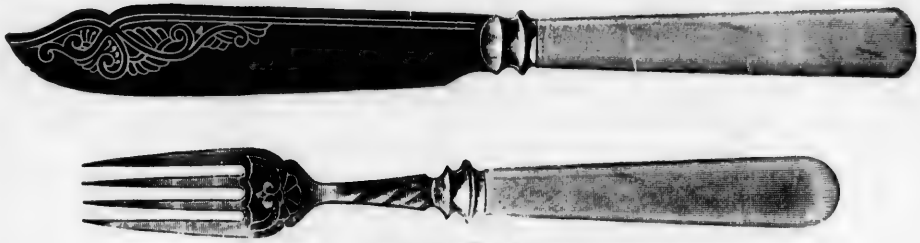


No. 9436

No. **9436**—"Ivorygrain" Handles, Nickel Blades, Silver-Plated, not in case.....per doz. 26.35

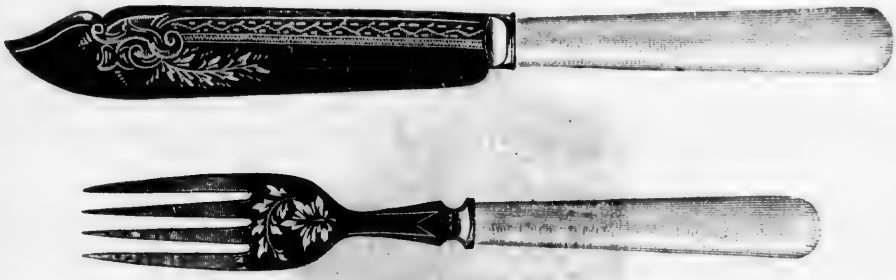
# TURNER'S FISH KNIVES AND FORKS

**Two-thirds size cuts.**



**No. 9446**

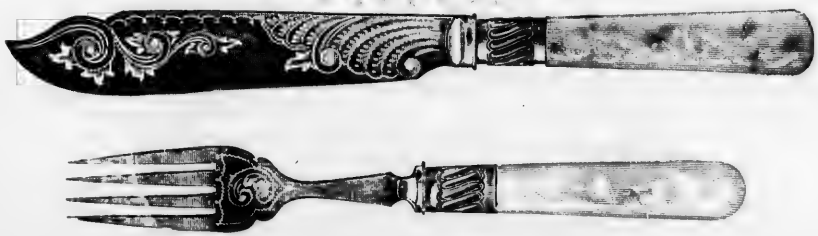
No. **9446**—"Ivorygrain" Handles, Nickel Blades, Silver-Plated, not in Case.....per doz. $28.35



**Nos. 9466 and 9476**

No. **9466**—"Ivorygrain" Handles, Nickel Blades, Silver-Plated, in Walnut Case, 12 pairs.....per case 31.80

" **9476**—"Ivorygrain" Handles, Nickel Blades, Silver-Plated, in Walnut Case, 6 pairs and one pair Fish Carvers.....per case 25.25

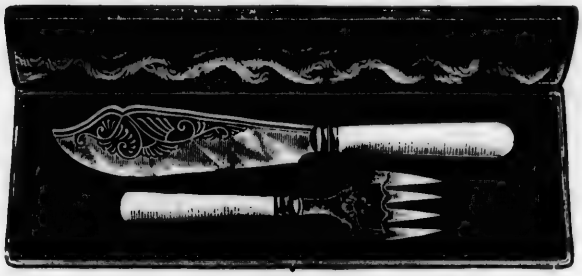


**No. 9478**

No. **9478**—Pearl Handles, Nickel Blades, Silver-Plated, E. P. Ferrules, not in case.....per doz. 45.00

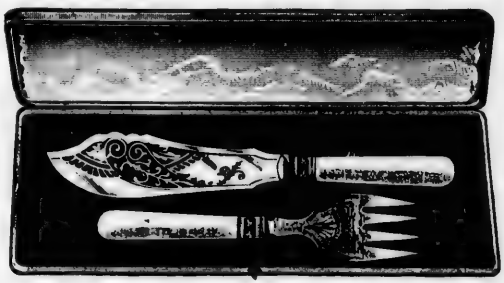
# FISH CARVERS IN CASES

**One-quarter size cuts.**

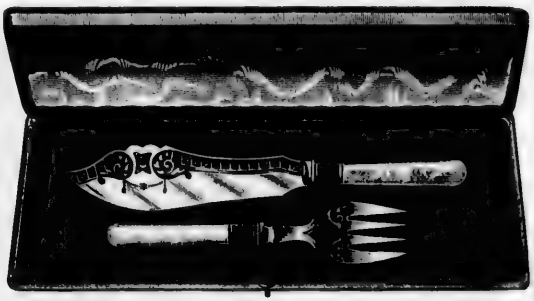


**No. 9626**

No. **9626**—"Ivorygrain" Handles, Nickel Blades, Silver-Plated, in Leather Case.....per case $8.10
" **9626**— " " " " not in case.....per pair 6.10

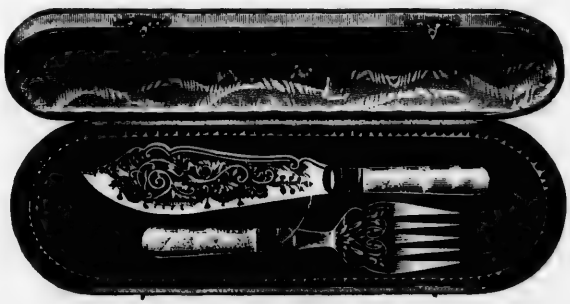


**No. 9637**



**No. 9638**

No. **9637**—Ivory Handles, Nickel Blades, Silver-Plated, E. P. Ferrules, in Leather Case.....per case 9.75
" **9637**— " " " " not in case.....per pair 7.75
" **9638**—Pearl Handles, " " " in Leather Case.....per case 13.50

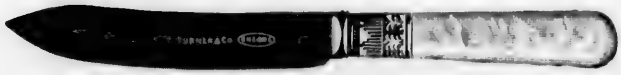


**No. 9648**

No. **9648**—Pearl Handles, Nickel Blades, Silver-Plated, E. P. Ferrules, in Leather Case.....per case 18.00

# TURNER'S FRUIT KNIVES

Two-thirds size cuts.



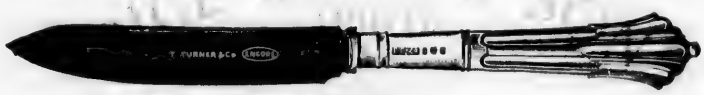
**No. 928**

No. **928**—Pearl Handle, Steel Blade, Silver-Plated, E.P. Ferrule ..... per doz. $10.80
" **938**— " " " " Sterling Silver Ferrule ..... " 12.15



**No. 948**

No. **948**—Pearl Handle, Steel Blade, Silver-Plated, E.P. Ferrule ..... per doz. 12.15



**No. 950**

No. **950**—Sterling Silver Handle, Steel Blade, Silver Plated ..... per doz. 18.90
" **980**—Pattern as No. 950, 6 Knives, 6 E.P. Coffee Spoons, and 1 E.P. Sugar Tongs, in Leather Case ..... per case. 18.90

## TURNER'S LEMON KNIVES




**No. 971**

No. **971**—Boxwood Handle, Silver-Plated Blade ..... per doz. 10.15



**No. 980**

No. **980**—E.P. Nickel Handle, Silver-Plated Blade ..... per doz. 24.30



**No. 992**

No. **992**—Ebony Handle, Silver-Plated Blade, E.P. Ferrule ..... per doz. 10.15



**No. 998**

No. **998**—Pearl Handle, Silver-Plated Blade, Sterling Silver Ferrule ..... per doz. 32.40

# TURNER'S BUTTER KNIVES

Two-thirds size cuts.



No. 9106

No. **9106**—"Ivorygrain" Handle, Nickel Blade, Silver-Plated ..... per doz. $12.15



No. 9116

No. **9116**—"Ivorygrain" Handle, Nickel Blade, Silver-Plated..... ..... per doz. 12.15



No. 9128

No. **9128**—Pearl Handle, Nickel Blade, Silver-Plated, Sterling Silver Ferrule..... per doz. 16.20



No. 9138

No. **9138**—Pearl Handle, Nickel Blade, Silver-Plated, E. P. Ferrule..... ..... per doz. 18.25



No. 9148

No. **9148**—Pearl Handle, Nickel Blade, Silver-Plated, Sterling Silver Ferrule..... per doz. 24.30



No. 9158

No. **9158**—Pearl Handle, Nickel Blade, Silver-Plated, E. P. Ferrule..... per doz. 24.30

# BUTTER KNIVES



No. 30½. Half size cut.

No. 30½—Nevada Silver.....per doz. $2.90



No. 9160. Two-thirds size cut.

No. 9160—Turner's, Sterling Silver Handle, Nickel Blade, Silver-Plated.....per doz. 24.30

" 12 —1847 Rogers Bros.', A1 Quality, Silver-Plated.....per doz. 9.00

"Berkshire," 1847 Rogers Bros.', A1 Quality, Silver-Plated.....per doz. 12.60



No. 12
Full size cut.



"BERKSHIRE"
Full size cut.

## TURNER'S CHEESE SCOOPS



No. 2430. Two-thirds size cut.

No. 2430—"Ivorygrain" Handle, Steel Blade, Silver-Plated.....per doz. $21.00

# THOMAS TURNER & CO.'S

## NUT CRACKS

Two-thirds size cuts.



No. 951

No. **951**—Steel, Silver-Plated ..... per doz. $18.25



No. 498

No. **498**—Steel, Silver-Plated ..... per doz. 15.00

## NUT PICKS



No. 2453

**2453**—Pearl Handle, Silver-Plated Blade and Ferrule ..... per doz. 11.00

## GRAPE SCISSORS



"King's Pattern"

Grape Scissors, Steel Blades, Nickel Handles, Silver-Plated, in King's, Queen's, Princess and Old English Patterns ..... per pair 5.25

## SARDINE FORKS



No. 660

No. **660**—Nickel, Silver-Plated ..... per doz. 16.25

# THOMAS TURNER & CO.'S

## SALAD SERVERS

Five-eighths size cuts.



No. **1160**

No. **1160**—Nickel, Silver-Plated ..... per pair $5.65

## JAM SPOONS



**No. 578½.** Two-thirds size cut.

No. **578½**—Nickel, Silver-Plated ..... per doz. 16.20



**No. 527.** Two-thirds size cut.

No. **527**—Nickel, Silver-Plated ..... per doz. 16.20

## SUGAR SPOONS



**No. 854.** Two-thirds size cut.

No. **854**—Nickel, Silver-Plated ..... per doz. 24.30

# TURNER'S SUGAR TONGS

Two-thirds size cuts.



No. 1047

No. **1047**—Nickel, Silver-Plated.....per doz. $11.35



No. 1155

No. **1155**—Nickel, Silver-Plated.....per doz. 17.00

## LADLES



TRIUMPH GRAVY LADLE. Half size cut.

| | CREAM | GRAVY | OYSTER | MEDIUM | SOUP | |
|---|---|---|---|---|---|---|
| Full Length..... | 5¾ | 7 | 9½ | 10½ | 11¼ | inch. |
| T. S. P., Triumph Pattern, Extra Plate.....per doz. | $16.20 | 21.60 | 46.80 | 57.60 | 61.20 | |
| T. S. P., Tipped " " ..... " | 16.20 | 21.60 | 46.80 | 57.60 | 61.20 | |

## PIE KNIFE



Half size cut.

T. S. P., Extra Plate, Triumph Pattern, Satin or Figured Blade.....per doz. 50.40

## CRUMB KNIFE



Half size cut.

T. S. P., Extra Plate, Triumph Pattern, Satin or Plain Blade.....per doz. 57.60

# TINNED SPOONS



No. 153



Nos. 170 and 352. One-third size cut of Tea Spoons.



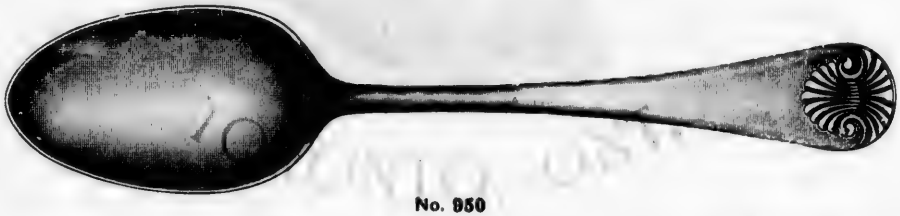
No. 350½

| | | | |
|---|---|---|---|
| No. 350½—Tinned Steel Tea Spoons | per gross | | $1.90 |
| " 352 — " " | " | | 2.30 |
| " 153 — " Table Spoons | " | | 3.40 |
| " 170 — " " Heavy | " | | 4.70 |



Nos. 900 and 200

| | | Tea Spoons | Dessert Forks | Dessert Spoons | Table Forks | Table Spoons |
|---|---|---|---|---|---|---|
| No. 900—Tinned Steel | per gross | $3.65 | 8.50 | 7.15 | 9.20 | 7.15 |
| " 200— " Heavier | " | 5.50 | ... | .... | 11.85 | 11.00 |



No. 950

| | | Tea Spoons | Table Spoons |
|---|---|---|---|
| No. 950—Tinned Steel | per gross | $4.00 | 7.90 |

## TINNED BASTING SPOONS



| Length | 10 | 12 | 14 | 16 inch. |
|---|---|---|---|---|
| Per Gross | $6.00 | 7.25 | 8.65 | 10.25 |

# NEVADA SILVER SPOONS AND FORKS

**Warranted to Wear White Throughout.**



## "OVAL"

| Nos..... | 305 Tea Spoons Medium. | 304 Tea Spoons Large. | 303 Dessert Forks | 302 Dessert Spoons | 301 Table Forks | 300 Table Spoons |
|---|---|---|---|---|---|---|
| Per dozen ..... | $1.45 | 1.70 | 2.90 | 2.90 | 3.75 | 3.75 |



## "FIDDLE"

### LIGHT FIDDLE

| Nos..... | 360 Tea Spoons Large. | 359 Tea Spoons Medium. | 358 Dessert Forks | 357 Dessert Spoons | 356 Table Forks | 355 Table Spoons |
|---|---|---|---|---|---|---|
| Per dozen ..... ..... | $1.05 | 1.10 | 2.55 | 2.55 | 3.40 | 3.40 |

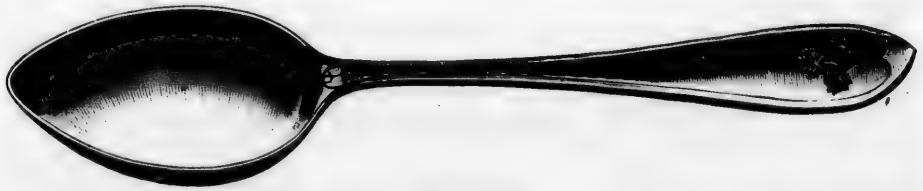
### HEAVY FIDDLE

| Nos..... | 345 Tea Spoons Large. | 344 Tea Spoons Medium. | 343 Dessert Forks | 342 Dessert Spoons | 341 Table Forks | 340 Table Spoons |
|---|---|---|---|---|---|---|
| Per dozen ..... | $1.50 | 1.70 | 3.25 | 3.25 | 4.45 | 4.45 |



## "LAUREL"

| Nos..... | 2227 Tea Spoons Small. | 2233 Tea Spoons Medium. | 2226 Tea Spoons Large. | 2225 Dessert Forks | 2224 Dessert Spoons | 2223 Table Forks | 2222 Table Spoons |
|---|---|---|---|---|---|---|---|
| Per dozen ... | $1.30 | 1.45 | 1.50 | 2.75 | 2.75 | 3.60 | 3.60 |



## "MAPLE"

| Nos..... | 375 Tea Spoons Small. | 374 Tea Spoons Large. | 373 Dessert Forks | 372 Dessert Spoons | 371 Table Forks | 370 Table Spoons |
|---|---|---|---|---|---|---|
| Per dozen ..... ..... | $1.85 | 2.05 | 3.95 | 3.95 | 4.80 | 4.80 |

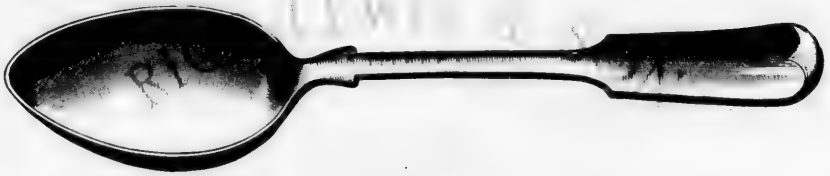
# NEVADA SILVER SPOONS AND FORKS

**Warranted to Wear White Throughout.**



**"TIPPED"**

| Nos. | 384 Tea Spoons | 383 Dessert Forks | 382 Dessert Spoons | 381 Table Forks | 380 Table Spoons |
|---|---|---|---|---|---|
| Per dozen | $1.45 | 2.80 | 2.80 | 3.85 | 3.85 |



**"WING TIPPED"**

| Nos. | 566 Tea Spoons Small. | 565 Tea Spoons Medium. | 564 Tea Spoons Large. | 563 Dessert Forks | 562 Dessert Spoons | 561 Table Forks | 560 Table Spoons |
|---|---|---|---|---|---|---|---|
| Per dozen | $0.85 | 1.05 | 1.15 | 2.35 | 2.35 | 3.00 | 3.00 |



**"WINDSOR"**

| Nos. | 526 Tea Spoons Small. | 525 Tea Spoons Medium. | 524 Tea Spoons Large. | 523 Dessert Forks | 522 Dessert Spoons | 521 Table Forks | 520 Table Spoons |
|---|---|---|---|---|---|---|---|
| Per dozen | $0.85 | 1.05 | 1.15 | 2.35 | 2.35 | 3.00 | 3.00 |

## SILVER-PLATED SPOONS AND FORKS

**Sterling Silver Plate on Best White Nickel Silver.**



**"FIDDLE"**

**A1 Quality.**

| Nos. | 244 Tea Spoons Medium. | 1510 Tea Spoons Large. | 243 Dessert Forks | 242 Dessert Spoons | 241 Table Forks | 240 Table Spoons |
|---|---|---|---|---|---|---|
| Per dozen | $5.60 | 6.05 | 10.35 | 10.35 | 13.30 | 13.30 |

# SILVER-PLATED SPOONS AND FORKS

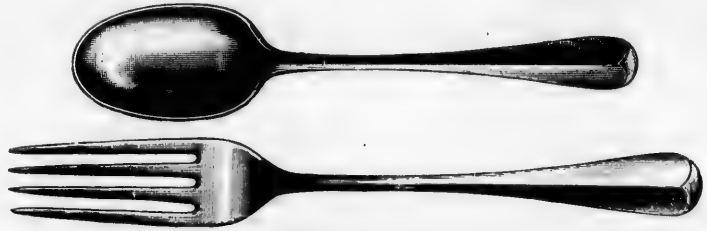
**Sterling Silver Plate on Best White Nickel Silver.**



## "MAPLE"

A1 Quality.

| Nos | 275 Tea Spoons Small. | 274 Tea Spoons Large. | 273 Dessert Forks | 272 Dessert Spoons | 271 Table Forks | 270 Table Spoons |
|---|---|---|---|---|---|---|
| Per dozen | $5.60 | 5.95 | 10.50 | 10.50 | 13.65 | 13.65 |



**"QUEEN ANNE."** Two-thirds size cuts.

A1 Quality.

| | Afternoon or Coffee Spoons | Tea Spoons Small. | Tea Spoons Large. | Dessert Forks | Dessert Spoons | Table Forks | Table Spoons |
|---|---|---|---|---|---|---|---|
| Per dozen | $6.85 | 7.50 | 7.50 | 13.50 | 15.00 | 17.00 | 18.00 |



## "TIPPED"

A1 Quality.

| | Tea Spoons | Dessert Forks | Dessert Spoons | Table Forks | Table Spoons |
|---|---|---|---|---|---|
| **1847** Rogers Bros'.....per doz. | $4.25 | 7.50 | 7.50 | 8.50 | 8.50 |
| Toronto Silver Plate Co.'s.. " | 4.25 | 7.50 | 7.50 | 8.50 | 8.50 |



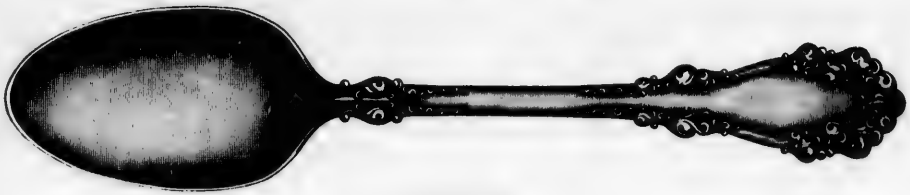
## "PORTLAND"

A1 Quality.

| | Tea Spoons | Dessert Forks | Dessert Spoons | Table Forks | Table Spoons |
|---|---|---|---|---|---|
| **1847** Rogers Bros'.....per doz. | $4.75 | 8.50 | 8.50 | 9.50 | 9.50 |

# SILVER-PLATED SPOONS AND FORKS

**Sterling Silver Plate on Best White Metal Silver.**



**"BERKSHIRE"**

**A1 Quality.**

| | | Tea Spoons | Dessert Forks | Dessert Spoons | Table Forks | Table Spoons |
|---|---|---|---|---|---|---|
| **1847** Rogers Bros.' | per doz. | $4.75 | 8.50 | 8.50 | 9.50 | 9.50 |

## STERLING SILVER SPOONS AND FORKS

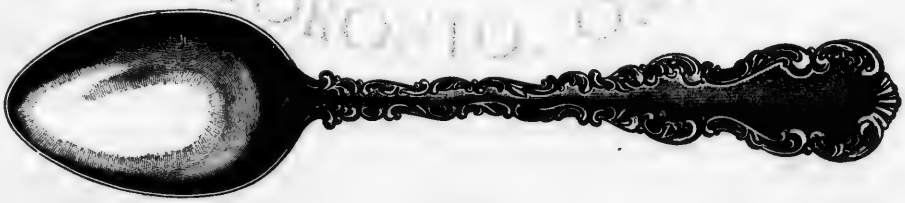


**"TIPPED"**

**Approximate Weight per dozen Pieces.**

| Tea Spoons | Dessert Spoons | Table Spoons | Dessert Forks | Table Forks |
|---|---|---|---|---|
| **6** and **8** ounces. | **16** ounces. | **22** ounces. | **16** ounces. | **22** ounces. |

Price.....per ounce $....



**"LOUIS XV"**

**Approximate Weight per dozen Pieces.**

| Tea Spoons | Dessert Spoons | Table Spoons | Dessert Forks | Table Forks |
|---|---|---|---|---|
| **6**, **8½** and **10** ounces. | **17** ounces. | **24** ounces. | **17** ounces. | **24** ounces. |

Price.....per ounce $....

# COFFEE SPOONS




**1847 Rogers Bros.'** Coffee Spoons, A1 Quality ..... per doz. $6.00

CORDOVA

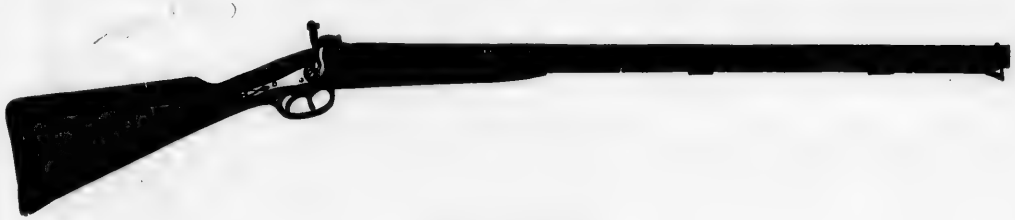
SAVOY

RUBY

COLUMBIA

MAJESTIC

# MUZZLE LOADING GUNS



### SINGLE BARREL

Imitation Twist Barrel, Back Action Lock ..... each $3.00

### DOUBLE BARREL

Imitation Twist Barrels, Back Action Locks ..... each 6.60

## SINGLE BREECH LOADING SHOT GUNS



No. **010**—Top Action Nickel Mountings, Pat. Fore End, Walnut Stock, Pistol Grip, 12 Bore, Plain Barrel . . each 10.80

## REMINGTON SINGLE BREECH LOADING GUNS



No. **3**—Top Lever, Blued Steel Barrel, Rebounding Lock, Side Cocking Lever, Pistol Grip, Choke Bore, 12 or 16 Bore ..... each 13.25

r doz. $6.00

# BREECH LOADING GUNS



ZULU

Zulu Single Breech Loading Guns, 12 Bore.....each $6.00

## BREECH LOADING DOUBLE BARREL GUNS

LEFAUCHEUX SYSTEM



No. 51—Blued Barrels, Lefaucheux System, Back Action Locks, Oiled Walnut Stock, Checkered Grip, Case Hardened Mountings, 12 Gauge, 30 and 32 inch Barrels, Weight 7 to 9½ lbs.,.....each 8.90



TOP SNAP ACTION

No. A—Fine Imitation Twist, Rebounding Locks, Pistol Grip, Checkered, 12 Bore.....each 11.00
" B— " " " " " Matted Rib, Engraved, 12 and 16 Bore.. " 11.50

# DOUBLE BARREL BREECH LOADING GUNS



RICE LEWIS & SON

**GENUINE BAR LOCKS, EXTENSION RIBS**

| | | |
|---|---|---|
| No. C—Fine Imitation Twist, Rebounding Locks, Pistol Grip, Checkered Butt, 12 Bore | each | $12.75 |
| " C— " " " " " " 10 | " | 13.25 |
| " D—Imitation Boston Damascus, Rebounding Locks, Pistol Grip, Checkered Butt, Double Bolt, Matted Rib, 12 Bore | each | 14.25 |
| " D—Imitation Boston Damascus, Rebounding Locks, Pistol Grip, Checkered Butt, Double Bolt, Matted Rib, 10 Bore | each | 15.00 |
| " J—Genuine Twist, Rebounding Locks, Deeley & Edge Fore End, Matted Rib, Fine Engraving, Full Pistol Grip with Plate, Extra Fine Polished Barrels, Left Barrel Choked, 12 and 16 Bore | each | 17.25 |
| " J—The same, 10 Bore | " | 18.00 |



| | | |
|---|---|---|
| No. E—Imitation Fine Damascus, Full Pistol Grip with Shield, Greener Bolt, Deeley & Edge Fore End, Matted Rib, 12 Bore | each | 17.75 |
| " L—Boston Damascus Barrels, Best Quality Bar Lock, Rubber Butt, Rebounding Lock, Pistol Grip, Greener Bolt, 12 Bore | each | 25.25 |
| " L—The same, 10 Bore | " | 26.00 |

# HAMMERLESS GUNS



No. 001—Hammerless Guns, Machine Made, Twist Barrels, 12 Bore.....each $29.00
" 002— " " " Damascus Barrels, 12 Bore..... " 33.00

## WINCHESTER MAGAZINE SHOT GUNS



Repeater, 12 Bore, very Rapid Firing Gun, Rolled Steel Barrel.....each 25.00
" " " " " " Take Down..... " 27.00

## REMINGTON HIGH GRADE GUNS




No. 1—Decarbonized Steel Barrels, Rebounding Low Circular Hammers, Pistol Grip, Extension Matted Rib, Double Bolt, Block Striker, Deeley & Edge Fore End, Checkered Grip and Fore End, Rubber Butt, Left Choke, Right Modified, 12 Bore.....each 40.00
" 2—Same style Gun as No. 1, but has Fine Twist Steel Barrels, 12 Bore..... " 45.00

# DOUBLE BARREL BREECH LOADING GUNS

## THE NEW REMINGTON HAMMERLESS



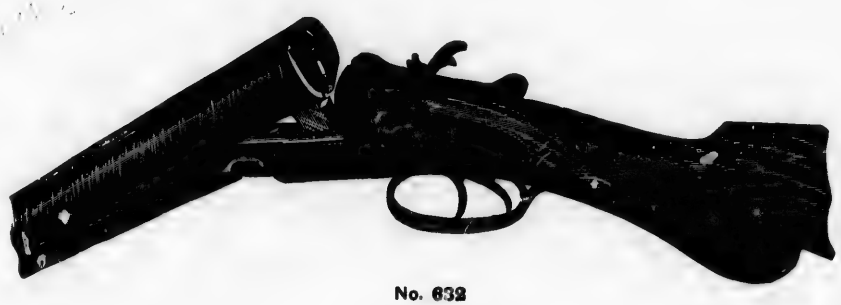
**No. A.R.—Two Stripe Damascus Barrels, Plain Finish, Left Barrel Choke, Right Modified, English Walnut Stock, Checkered, Half Pistol Grip, Rubber Butt, Case Hardened Frame, Automatic Safety, Purdy Fore End Snap, Top Snap Extension, Flat Matted Rib with Bite, 12 Bore.....each $64.00**



**No. A.E.R.—Two Stripe Damascus Barrels, Triple Bolt, Top Snap, Extension Matted Rib, English Walnut Stock, Half Pistol Grip, Rubber Butt Plate, Checkered Fore End, Purdy Fore End Snap, Independent Automatic Shell Ejector, 12 Bore .....each 75.00**

# DOUBLE BARREL BREECH LOADING GUNS

## CLABROUGH & JOHNSTONE



No. 632

No. **631**—Finest English Twist Barrels, Cross Bolt Action, Left Choke, Engine Turned Rib, Deeley & Edge Fore End, Rebounding Locks, Horn Heel Plate, Neatly Engraved. 12 and 16 Bore....each $30.50

" **632**—Same as 631, but without Cross Bolt Action, complete Gun, 12 Bore..... " 26.00

" **632**— " " " " " " 10 " ..... " 28.50



No. 629

No. **628**—Damascus Barrels, Cross Bolt Action, Flat Engine Turned Rib, Deeley & Edge Snap Fore End, Rebounding Locks, Walnut Stock, Horn Heel Plate, Left Choke, 12 Bore .....each 33.75

" **629**—Special Value Gun, Cross Bolt Action, Fine Steel Barrels, Left Choke, Flat Engine Turned Rib, Deeley & Edge Fore End, Walnut Stock, Half Pistol Hand, Nicely Engraved and Finished, 12 Bore .....each 32.00

" **629**—The same, 10 Bore..... " 34.25

# PLAIN HAMMERLESS GUNS

## CLABROUGH & JOHNSTONE



No. 616

These Guns are specially intended to meet the demand for a sound Hammerless Gun at a low figure, and may be thoroughly relied upon.

No. **616**—Damascus Barrels, Left Choke, Cross Bolt Action, Engine Turned Rib, Walnut Stock, Automatic Safe, Neatly Engraved and Finished, with Deeley & Edge Fore End, 12 Bore.....each $56.00

" **616**—The same, 10 Bore ..... " 58.50

## SPECIAL HAMMERLESS GUNS



No. 615

No. **615**—Special Hammerless Gun, No. 1, Damascus Barrels, Choke, Automatic Safe, Engine Turned Rib, well selected Walnut Stock, Fine Steel Locks, 12 Bore .....each 61.50

" **611**—Same as above, with Ejector, 12 Bore..... " 92.50

# PATENT HAMMERLESS GUNS

## CLABROUGH & JOHNSTONE

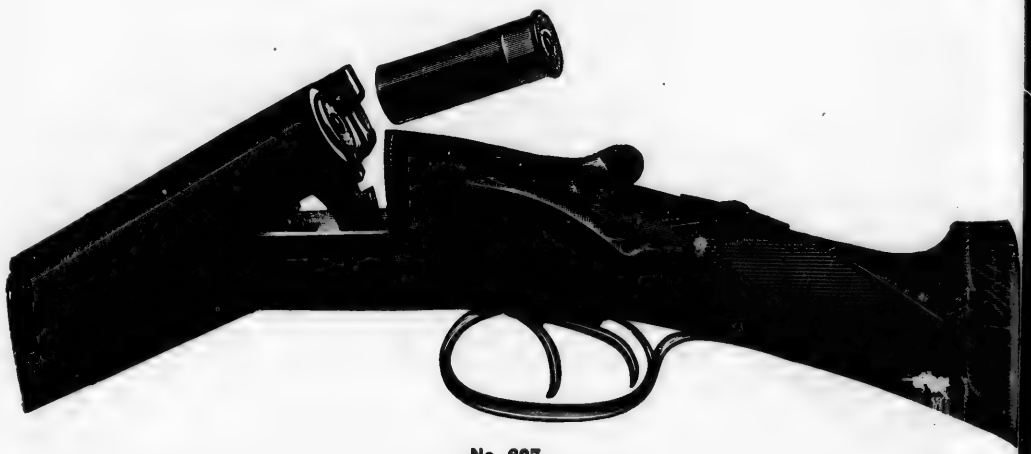


No. 614

### WITHOUT EJECTORS

No. **614** —Good Quality 3 Stripe Damascus Barrels, Engine Turned Rib, Deeley & Edge Fore End, Engraved and Finished, 12 Bore.... .....each $73.00

" **615B**—Special Hammerless Gun, No. 1 Damascus Barrels, Choke, Automatic Safe, Engine Turned Rib, Walnut Stock, 12 Bore .....each 66.25



No. 607

### WITHOUT EJECTORS

No. **607**—Good Quality Damascus Barrels, Extension Rib, same as shown in cut No. 615, but otherwise same style as this cut, Deeley & Edge Fore End, Neatly Engraved and Finished, 12 Bore..each 66.00

# FLOBERT RIFLES

## PLAIN SYSTEM



No. **300½**—Hammer Breech, Side Extractor, Varnished Stock, Polished Blued Barrels, shoots B.B. or Bullet Breech Caps, Noiseless, Rifled ..... each **$2.75**

## REMINGTON SYSTEM

**Rifled Barrel.**



No. **345½**—Remington Action, .22 Calibre, Light 22 inch Barrel, Walnut Stock, Blued Mountings, Blued Barrel, Rifled, Scroll Guard, Pistol Grip ..... each 3.40

## WARNANT SYSTEM

**Rifled Barrel.**



No. **347½**—Warnant Action, .22 Calibre, with Pistol Grip, Checkered, Blued Barrel ..... each 3.50
" **81** — " " .32 " " Checkered Pistol Grip, Heavy Barrel, Blued ..... " 4.00

## IMPROVED WARNANT ACTION

**Solid Breech Block.**



This Rifle, as illustrated, has Polished Blued Barrel, Rifled, Scroll Guard, Oiled Pistol Grip Stock, Full Checkered, Case Hardened Mountings, Fancy Rubber Butts, finely finished throughout.

No. **389P**—In .22 Calibre, Light Barrel ..... each **$4.00**
" **348** —In .32 " Heavy " ..... " 4.50

# STEVENS' RIFLES

## THE FAVORITE



**Calibres .22, .25, and .32 R. F.**

.22 uses in one Rifle, the .22 C. B., .22 Short, .22 Long and .22 Long Rifle Cartridges; the .25 uses the .25 Stevens: the .32, the .32 Short and .32 Long.

| | | |
|---|---|---|
| No. **17**—Plain Open Front and Rear Sights | each | $9.30 |
| No. **18**—Beach Combination Front Sight, Open Rear and Vernier | " | 13.20 |
| " **19**—Lyman Front, Open Rear and Lyman Peep Sights | " | 14.00 |
| " **20**—Favorite Shotgun, same as No. 17, but Smooth Bore, for Shot Cartridges. Made for .22 and .32 Rim Fire Shot Cartridges. No other sizes are made | each | 9.30 |
| " **21**—Bicycle Rifle, 20 inch Barrel, .22, .25 and .32 Calibre | each | 9.30 |
| Canvas Case to fit in Diamond Frame (for Bicycle Rifle) | " | 1.50 |

## EXTRAS ON FAVORITE RIFLES

| | | |
|---|---|---|
| Fancy Walnut Stock and Fore-Arm | each | 1.50 |
| Barrel Part Complete, with Fore-Arm, etc., 22 inch, .22, .25 or .32 Calibre, Rifle or Shot | " | 6.20 |
| Rifle, with 24 inch Barrel, any Calibre, $3.10 extra; 26 inch Barrel, $6.20 extra. Longer barrels are not made for Favorites. Shot Barrels made 22 inches only | each | 6.20 |
| Breech Block, Lever and Firing Pin, complete | " | 1.55 |

Every Favorite packed in a neat pasteboard box. Weight as packed in wood for shipment singly, 7 lbs.

## IDEAL SPORTING AND HUNTING RIFLES



| | | |
|---|---|---|
| No. **44**—Made in sizes, with Nos. 2 or 3 Barrels, for .22 Long Rifle R. F., .25 Stevens' R. F., and .32 Long R. F. Standard length of Barrel for Rim Fire Cartridges, 24 inches. Weight 7½ lbs. | each | 14.70 |
| .25-20 Stevens' C. F., .25-21 Stevens' C. F., .32-40 C. F., and .38-55 C. F. Standard length of Barrel for Centre Fire Cartridges, 26 inches. Weight 7¾ lbs. | each | 14.70 |



| | | |
|---|---|---|
| No. **45**—With Swiss Butt Plate, Target Sight, Finely Finished, Selected Wood, otherwise same as No. 44 | each | 32.25 |
| " **47**—Same as No. 45, with Pistol Grip Stock | " | 39.60 |

## STEVENS' POCKET RIFLES



| | | |
|---|---|---|
| No. **42**—Round Barrel, Globe and Peep Sights, with Detachable Shoulder Rest, Frame Nickeled, Weight 1 lb., with 10 inch Barrel, for .22 Long R. F. Cartridges | each | 11.00 |

We can also supply any of Stevens' Pistols or Rifles not mentioned above.

# REMINGTON SPORTING AND TARGET RIFLES



No. 4—Remington, Walnut Stock and Fore Arm, Rifle Butt, Octagon Steel Blue Barrels, 22¼ inch, .22 Calibre. This Rifle is very accurate ..... each $9.30
" 4—.32 Calibre, same as .22, only 24 inch Barrel ..... " 9.30

## WINCHESTER SINGLE SHOT RIFLES



Round Barrels, .44-40, .32-40 and .38-55 Calibre ..... each 14.50
Octagon " .44-40, .32-40 and .38-55 " ..... " 15.00
Length, .44-40, 26 or 28 inches; .32-40 and .38-55, 26 to 30 inches. Quotation given on special Rifles.

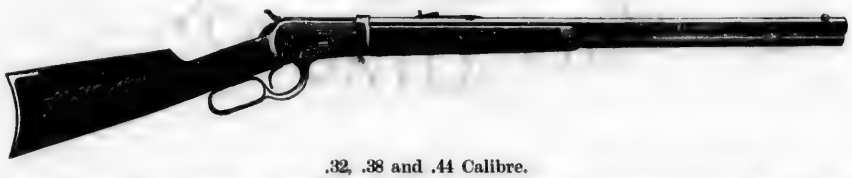
## WINCHESTER REPEATING RIFLES

### MODEL 1890



A Two-part Gun, can be packed in a Victoria case. This gun can be furnished to use the .22 Short, .22 Long or .22 Winchester Rim Fire Cartridges ..... each 16.00

### SPORTING RIFLE, MODEL 1892



.32, .38 and .44 Calibre.

24 inch Round Barrel, Full Magazine, Plain Trigger, Weight about 6¾ lbs., Number of Shots, 15 ..... each 18.00
24 " Octagon " " " " 6¾ " " " 15 ..... " 19.50

### SPORTING RIFLE, MODEL 1894

.32-40 and .38-55 Calibre.

26 inch Round Barrel, Full Magazine, 10 Shots, Weight 7½ lbs ..... each 18.00
26 " Octagon " " 10 " " 7½ " ..... " 19.50

### SPORTING RIFLE, MODEL 1886

.45-70, .45-90, .40-70, .40-82, .40-65, and .38-56 Calibre.

26 inch Round Barrel ..... each 19.50
26 " Octagon " ..... " 21.00

# MARLIN SAFETY REPEATING RIFLES

## MODEL 1892




.22 Calibre, Rim Fire.

| | | |
|---|---|---|
| 24 inch, Round Barrels, Full Magazine, Plain Trigger, 6 lbs. | each | $18.00 |
| 24 " Octagon " " " " 5¾ " | " | 19.50 |

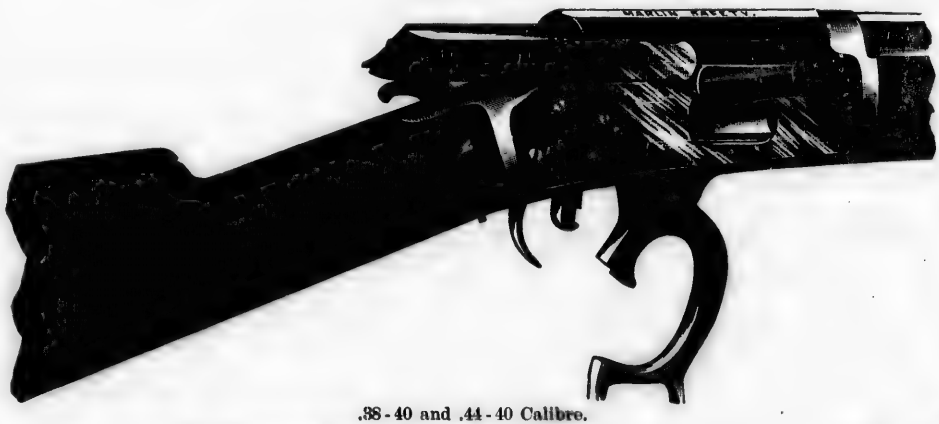
Magazine holds 25 Cartridges .22 Short, 20 Cartridges .22 long, 18 Cartridges .22 Long Rifle.

.32 Calibre Rim or Centre Fire.

| | | |
|---|---|---|
| 24 inch, Round Barrels, Full Magazine, Plain Trigger, 6½ lbs. | each | 18.00 |
| 24 " Octagon " " " " " 6 " | " | 19.50 |

Magazine holds 18 Cartridges .32 Short, 15 Cartridges .32 Long.

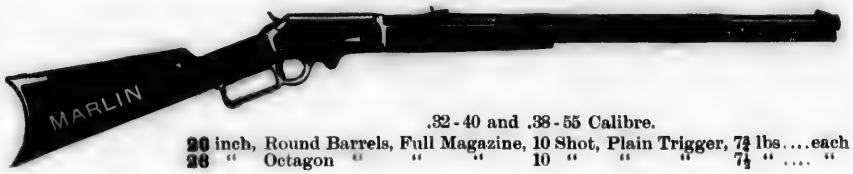
## MODEL 1894



.38-40 and .44-40 Calibre.

| | | |
|---|---|---|
| 24 inch, Round Barrels, Full Magazine, 14 Shot, Plain Trigger, 7½ lbs. | each | 18.00 |
| 24 " Octagon " " " 14 " " " 6¾ " | " | 19.50 |

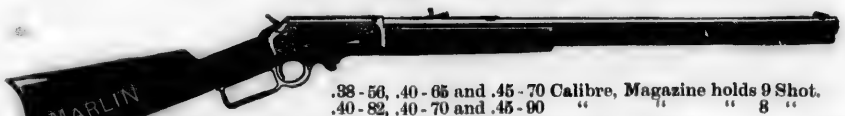
## MODEL 1893




.32-40 and .38-55 Calibre.

| | | |
|---|---|---|
| 20 inch, Round Barrels, Full Magazine, 10 Shot, Plain Trigger, 7¼ lbs. | each | 19.50 |
| 26 " Octagon " " " 10 " " " 7½ " | " | 21.00 |

## MODEL 1895




.38-56, .40-65 and .45-70 Calibre, Magazine holds 9 Shot.
.40-82, .40-70 and .45-90 " " " 8 "

| | | |
|---|---|---|
| 26 inch, Round Barrels, Full Magazine, Plain Trigger, 8¾ lbs. | each | 19.50 |
| 26 " Octagon " " " " " 8¼ " | " | 21.00 |

# SAVAGE HAMMERLESS SPORTING RIFLES

## DESCRIPTION OF SYSTEM, MODEL 1895




ACTION OPEN

A—Finger Lever.
B—Catch on Automatic Cut-off.
C—Automatic Cut-off.
D—Breech Opening.
E—Breech Bolt.
G—Magazine Carrier.
H—Projection on Receiver for Finger Lever.
K—Sear.
L—Retractor.
N—Hammer.
P—Sear Screw.
R—Trigger.
S—Trigger Safety Projection.
U—Recoil Shoulder.
V—Trigger and Lever Lock.

This Rifle is without a doubt the most wonderful of all latest improvements in the line of sporting weapons. While unique and handsome in its appearance, it is of the strongest style, the best workmanship, and will stand heavy charges, as is absolutely necessary in nitro guns. It is so constructed that premature explosion is next to impossible—the magazine being as shown in above cut, and the cartridges lie side by side instead of following each other up a long magazine. The trajectory is very flat and the velocity very great, so that for average sporting the Rifle can be used up to say 200 yards without changing sight. Penetration is very great, the velocity being so great and the barrel having one turn to every 10 inches (*i. e.*, 2½ turns in 26 in. barrel). For very hard shooting it is necessary to use either full jacketed or expansive jacketed balls; for light shooting, say up to 100 yards, the miniature cartridge with lead ball makes a very nice ammunition.



### .303 CALIBRE, FOR SMOKELESS POWDER

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 26 inch, | Round | Barrel, | holds | 6 | Cartridges, | Weight | 7½ | lbs | each $27.65 |
| 26 " | Half Octagon | Barrel, | " | 6 | " | " | 7¾ | " | " 29.50 |
| 26 " | Full " | " | " | 6 | " | " | 7¾ | " | " 29.50 |

Can also supply Carbine same make as this Rifle.

## DAISY AIR RIFLES



REPEATER

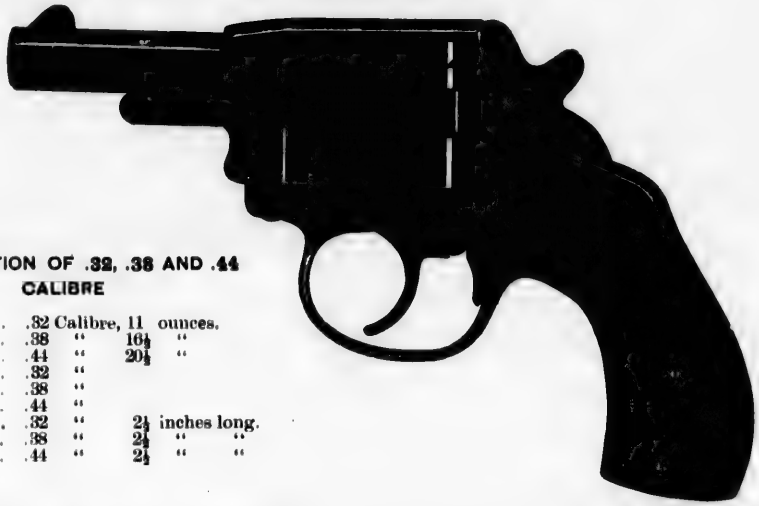
SINGLE SHOT

| | | |
|---|---|---|
| Daisy Repeater, holds 48 B.B. Shot, Walnut Stock, Globe Sights | per doz. | $19.50 |
| Daisy Single Shot (20th Century) suitable for B.B. Shot or Darts | " | 16.00 |

The Daisy Repeater will not shoot Darts.

| | | |
|---|---|---|
| DARTS, suitable for 20th Century Single Shot Daisy Rifles | per gross | 7.00 |

# REVOLVERS



### DESCRIPTION OF .32, .38 AND .44 CALIBRE

| | | | | |
|---|---|---|---|---|
| Weight | .32 | Calibre, | 11 | ounces. |
| " | .38 | " | 16½ | " |
| " | .44 | " | 20½ | " |
| Cartridge | .32 | " | | |
| " | .38 | " | | |
| " | .44 | " | | |
| Barrel | .32 | " | 2½ | inches long. |
| " | .38 | " | 2¾ | " " |
| " | .44 | " | 2½ | " " |

| | | | |
|---|---|---|---|
| American Bull Dog, | .32 or .38 Calibre, Centre Fire | each | $2.85 |
| " " " | .44 Calibre, Centre Fire | " | 3 20 |

### BOSTON BULL DOG

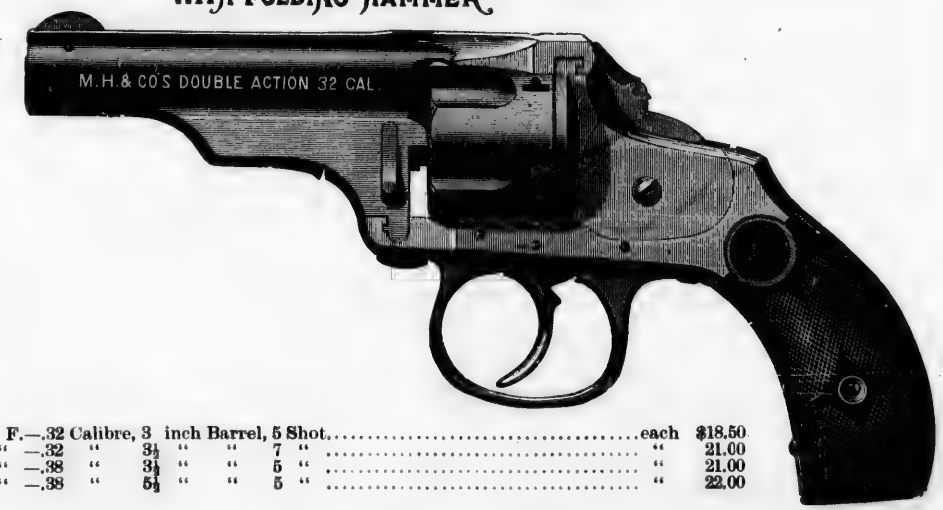
Same style as American Bull Dog but lighter in weight.

| | | | | |
|---|---|---|---|---|
| Boston Bull Dog, | .22 | Calibre, Rim Fire | each | 2.85 |
| " " " | .32 | " Centre Fire | " | 2.85 |

### MERWIN, HULBERT & CO.'S REVOLVERS

Turning the Barrel on the Centre Stem and drawing it forward ejects all the Shells.

WITH FOLDING HAMMER




| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| C. F. | —.32 | Calibre, | 3 | inch | Barrel, | 5 | Shot | each $18.50 |
| " | —.32 | " | 3½ | " | " | 7 | " | " 21.00 |
| " | —.38 | " | 3½ | " | " | 5 | " | " 21.00 |
| " | —.38 | " | 5½ | " | " | 5 | " | " 22.00 |

# REVOLVERS

## IVER JOHNSON SAFETY HAMMER AUTOMATIC REVOLVERS



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| .32 | Calibre, | 3 | inch | Barrels, | Nickel | each. | $5.50 |
| .32 | " | 3 | " | | Blued | " | 6.15 |
| .32 | " | 6 | " | | Nickel | " | 7.35 |
| .38 | " | 3½ | " | | Nickel | " | 5.50 |
| .38 | " | 3½ | " | | Blued | " | 6.15 |
| .38 | " | 6 | " | | Nickel | " | 7.35 |

## IVER JOHNSON SAFTY HAMMERLESS AUTOMATIC REVOLVERS



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| .32 | Calibre, | 3 | inch | Barrels, | Nickel | each. | 6.75 |
| .32 | " | 3 | " | | Blued | " | 7.35 |
| .32 | " | 6 | " | | Nickel | " | 8.60 |
| .38 | " | 3½ | " | | Nickel | " | 6.75 |
| .38 | " | 3½ | " | | Blued | " | 7.35 |
| .38 | " | 6 | " | | Nickel | " | 8.60 |

# REVOLVERS

## SMITH & WESSON



### AUTOMATIC

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Double Action, | 3 | inch | Barrel, | Nickel-Plate or Blued Finish, | C. F., | .32 | Calibre | each | $14.85 |
| " | 3½ | " | " | " | " | .32 | " | " | 14.85 |
| " | 3¼ | " | " | " | " | .38 | " | " | 16.40 |
| " | 6 | " | " | " | " | .38 | " | " | 17.90 |



### HAND EJECTOR

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Double Action, | 3¼ | inch | Barrel, | Nickel or Blued Finish, | C. F., | .32 | Calibre | each | 14.50 |



### NEW DEPARTURE

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Safety, Hammerless, | 3 | inch | Barrel, | Nickel or Blued Finish, | C. F., | .32 | Calibre | each | 16.40 |
| " " | 3¼ | " | " | " | " | .38 | " | " | 17.90 |

### SMITH & WESSON TARGET REVOLVERS

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Single Action Hammer, | 6 | inch | Barrel, | Nickel or Blued Finish, | C. F., | .32-44 | Calibre | each | 22.00 |
| " " | 6 | " | " | " | " | .38-44 | " | " | 22.00 |

# CARTRIDGES

## RIM FIRE




**Blank Cartridges same List as Ball Cartridges, except .22 and .32.**

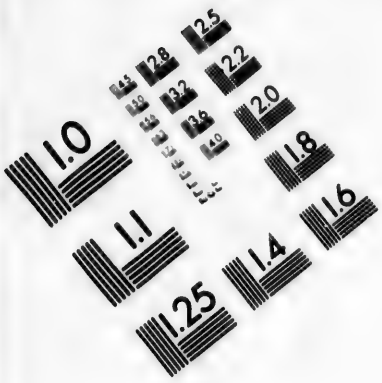
| | Per 1000. |
|---|---|
| **B.B.** Caps | $4.00 |
| **C.B.** " | 4.50 |
| **.22** Short, 50 in a box | 5.00 |
| **.22** " 100 " | 5.00 |
| **.22** " Mushroom, 50 in a box | 5.50 |
| **.22** " " 100 " | 5.50 |
| **.22** Long, 50 in a box | 6.00 |
| **.22** " 100 " | 6.00 |
| **.22** Colt's M.R. Short, 50 in a box | 5.00 |
| **.22** " " " 100 " | 5.00 |
| **.22** " " Long, 50 " | 6.00 |
| **.22** " " " 100 " | 6.00 |
| **.22** Long, Rifle, 50 in a box | 6.00 |
| **.22** " " 100 " | 6.00 |
| **.22** Extra Long | 9.00 |
| **.22** Winchester | 9.00 |
| **.25** Short | 8.50 |
| **.25** Stevens' | 14.00 |
| **.30** Short | 9.00 |
| **.30** Long | 10.50 |
| **.32** Extra Short | 10.00 |
| **.32** Short | 10.00 |
| **.32** Long | 11.50 |
| **.32** Long, Rifle | 11.50 |
| **.32** Extra Long | 16.50 |
| **.38** Short | 16.00 |
| **.38** Long | 18.00 |
| **.38** Extra Long | 25.00 |
| **.41** Short | 15.00 |
| **.41** Long | 17.50 |
| **.42** Calibre, No. 64, Forehand and W | 30.00 |
| **.44** Short | 23.00 |
| **.44** Long | 25.00 |
| **.44** Henry, Flat | 24.00 |
| **.44** " Pointed | 25.00 |
| **.44** C. and W. | 25.00 |
| **.44** Howard, Long | 27.00 |
| **.44** Extra Long | 36.00 |
| **.46** Short, Pistol | 25.00 |
| **.46** Long, Rifle | 33.00 |
| **.46** Extra Long | 46.00 |
| **.56-46** Spencer Sporting | 40.00 |
| **.56-50** " Carbine | 40.00 |
| **.56-52** " Rifle | 40.00 |
| **.56-56** " Carbine | 40.00 |
| **SHOT CARTRIDGES**, .22 Long | 11.00 |
| " " .32 " | 22.00 |
| **BLANKS**, .22 Short | 5.00 |
| " .32 " | 10.00 |

## CENTRAL FIRE, PISTOL SIZES




**Blank Cartridges same List as Ball Cartridges.**

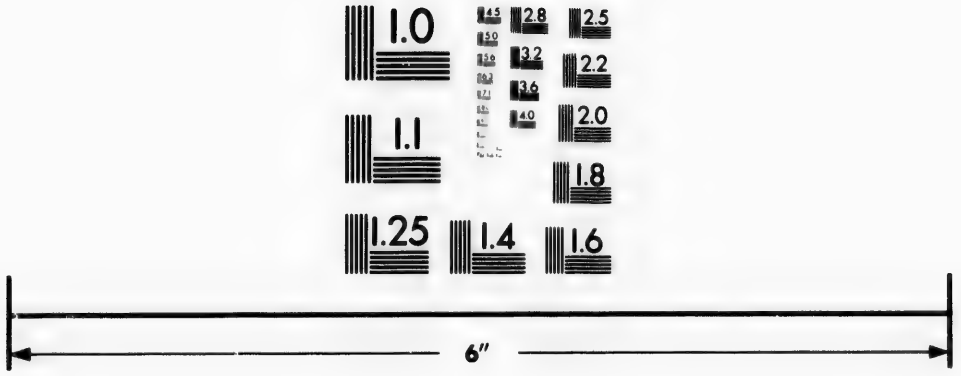
| Primer. | Per 1000. |
|---|---|
| No. **1** —.22 Extra Long | $13.00 |
| " **1** —.22 Winchester | 15.00 |
| " **1** —.25-20 Grs., Stevens' and Winchester Single Shot | 18.00 |
| " **1½** —.25-20 Marlin and Winchester | 16.00 |
| " **1** —.300 Rook | 15.00 |
| " **1** —.32 Protector | 9.00 |
| " **1** —.32 Ideal | 20.00 |
| " **0** —.32 Short Colt's | 11.00 |
| " **0** —.32 Long | 12.00 |
| " **1** —.32 " Colt's, Inside Lubricant | 12.00 |
| " **1** —.32 " Rifle | 12.00 |
| " **0** —.32 Smith & Wesson Gallery, Round Ball | 10.00 |
| " **0** —.32 " " | 11.00 |
| " **0** —.32 H. & R. or M. H. & Co | 14.00 |
| " **1** —.32 Winchester | 16.00 |
| " **1** —.32 Colt's M. R. for Colt's Lightning Rifle | 16.00 |
| " **1** —.32-20 Marlin | 16.00 |
| " **1½** —.32-30 Remington Grooved | 25.00 |
| " **1½** —.32 Extra Long Ballard | 18.00 |
| " **1½** —.32 " Smith & Wesson Rifle | 20.00 |
| " **1** —.32-44 S. & W. Gallery, Round Ball | 18.00 |
| " **1** —.32-44 " " Target, Grooved | 19.00 |
| " **0** —.38 " " Gallery, Round Ball | 12.50 |
| " **0** —.38 " " " | 13.50 |
| " **1** —.38-44 " " Target, Grooved | 23.00 |
| " **1** —.38-44 " " Gallery, Round Ball | 19.00 |
| " **0** —.38 Merwin, Hulbert & Co | 13.50 |
| " **0** —.38 Short | 13.50 |
| " **1** —.38 Long, for Colt's D. A. Pistols, etc | 14.50 |
| " **1** —.38 Winchester | 19.00 |
| " **1** —.38 Colt's R. for Colt's Lightning Rifle | 19.00 |
| No. **1** —.38-40 Marlin | 19.00 |
| " **1** —.38 Extra Long | 23.00 |
| " **0** —.41 Short, Colt's Single Action | 15.00 |
| " **0** —.41 " " Double " | 15.00 |
| " **1** —.41 Long, " " " | 17.50 |
| " **0** —.44 S. & W. No. 3, American | 19.00 |
| " **2** —.44 " " 3, Russian | 20.00 |
| " **3** —.44 " " Russian Gallery, Round Ball | 22.00 |
| " **2** —.44 " " " Grooved | 25.00 |
| " **1** —.44 Merwin, Hulbert & Co | 20.00 |
| " **2** —.44 Colt's | 20.00 |
| " **1** —.44 Long, Ballard | 22.00 |
| " **1** —.44 Extra Long, Wesson | 30.00 |
| " **1** —.44 " Ballard | 30.00 |
| " **1** —.44 Winchester | 19.00 |
| " **1** —.44 Colt's M. R. for Colt's Lightning Rifle | 19.00 |
| " **1** —.44-40 Marlin | 19.00 |
| " **2½** —.44 Evans' New Model | 26.00 |
| " **1** —.44 " Old " | 22.00 |
| " **1** —.44 Webley | 16.50 |
| " **1** —.44 Bull Dog | 14.50 |
| " **1** —.45 Webley | 20.00 |
| " **1** —.45 Smith and Wesson | 25.00 |
| " **2** —.45 Colt's U.S.A | 22.00 |
| " **2** —.45 " " 28 Grs. | 22.00 |
| " **2** —.45 " Round Ball | 22.00 |
| " **1** —.450 Revolver | 15.00 |
| " **A** —.50 Pistol | 28.00 |
| **SHOT CARTRIDGES**, .38 W.C.F. and 44 W.C.F. | 20.00 |
| **BLANKS**, .32 Smith & Wesson | 11.00 |
| " .38 " " | 13.50 |





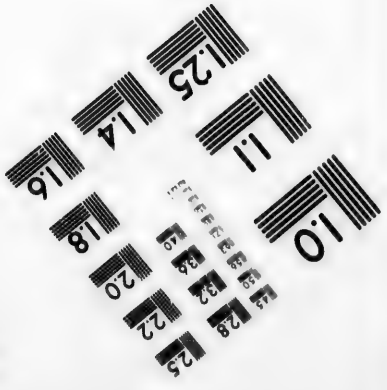


# IMAGE EVALUATION TEST TARGET (MT-3)










Photographic Sciences Corporation

23 WEST MAIN STREET
WEBSTER, N.Y. 14580
(716) 872-4503

# CARTRIDGES

## CENTRAL FIRE, FOR TARGET AND SPORTING RIFLES







**Blank Cartridges same List as Ball Cartridges. Express Bullets $3.50 extra per 1000**

| Primer. | | Per 1000. |
|---|---|---|
| No. 1½ | —.25-25 Stevens | $22.50 |
| " 1½ | —.25-36 Marlin | 30.00 |
| " 2½ | —.303 Savage | 32.00 |
| " 1½ | —.32-35 Stevens | 27.00 |
| " 1½ | —.32-40 Remington | 27.00 |
| " 1½ | —.32-40 " | 27.00 |
| " 1½ | —.32-40 Marlin & Ballard | 27.00 |
| " 1½ | —.32-13 " Short Range | 27.00 |
| " 1½ | —.32-40 Ballard | 27.00 |
| " 1½ | —.32-40 Ballard Rifle | 31.50 |
| " 1½ | —.38-45 " " | 31.50 |
| " 1½ | —.38-55 Marlin & Ballard | 33.00 |
| " 1½ | —.38-20 " " Short Range | 33.00 |
| " 1½ | —.38-55 Ballard, Straight Shell | 33.00 |
| " 1½ | —.38-40 Rem. Hep. No. 3 Rifle | 31.50 |
| " 1½ | —.38-40 " " " " | 31.50 |
| " 1½ | —.38-50 " " " " | 35.00 |
| " 1½ | —.38-50 " " " " | 35.00 |
| " 2½ | —.38-56 Winchester | 33.00 |
| " 2½ | —.38-56 Colt's M. R. | 33.00 |
| " 2½ | —.38-70 Winchester | 35.00 |
| " 2½ | —.38-72 " | 34 00 |
| " 2½ | —.38-90 " Express. | 50.00 |
| " A | —.40-50 Sharps & Rem., Straight | 35.00 |
| " 2½ | —.40-65 " " " | 40.00 |
| " 2½ | —.40-70 " " " " | 40.00 |
| " 2½ | —.40-65 " " " " | 39.00 |
| " 2½ | —.40-70 " " " " | 39.00 |
| " A | —.40-50 " only, Necked | 35.00 |
| " A | —.40-70 " " " | 40.00 |
| " A | —.40-90 " " " | 45.00 |
| " 2½ | —.40-90 " Straight | 50.00 |
| " A | —.40-50 Reg. & Rem., Necked | 35.00 |
| " A | —.40-70 " " " | 40.00 |
| " A | —.40-90 " " " | 50.00 |
| " 1½ | —.40-70 Ballard, Straight | 40.00 |
| " 1½ | —.40-85 " | 50.00 |
| " 1½ | —.40-90 " | 50.00 |
| " 1½ | —.40-60 Winchester Rifle | 32.00 |
| " 3½ | —.40-65 Winchester & Marlin | 33.00 |
| " 2½ | —.40-72 Winchester | 35.00 |
| " 2½ | —.40-75 " Express. | 38.00 |
| " 2½ | —.40-82 Winchester & Marlin, Mod. 1886 | 36.00 |
| " 2½ | —.40-110 Winchester Express | 80.00 |
| " 1½ | —.40-75 Bullard Rifle | 33.00 |
| " 2½ | —.40-90 " " | 40.00 |
| " 1½ | —.40-60 Marlin Magazine Rifle | 33.00 |
| " 1½ | —.40-60 Colt's " " | 33.00 |

| Primer. | | Per 1000. |
|---|---|---|
| No. A | —.40-70 What Cheer, Necked | $40.00 |
| " A | —.40-90 " " " | 50.00 |
| " 2½ | —.40-70 Winchester | 36.00 |
| " A | —.44-60 Sporting, Necked | 39.00 |
| " A | —.44-77 Sharps only, Necked | 44.00 |
| " A | —.44-90 " " " | 56.00 |
| " A | —.44-90 Remington, Straight | 60.00 |
| " A | —.44-105 Sharps only, Necked | 58.00 |
| " A | —.44-77 Reg. & Rem., " | 44.00 |
| " A | —.44-90 " " " | 45.00 |
| " A | —.44-90 Remington Special, Necked | 56.00 |
| " A | —.44-95 What Cheer, " | 50.00 |
| " A | —.45-50 Peabody, Sporting, " | 34.00 |
| " A | —.45-70 Sharps, Straight | 36.00 |
| " A | —.45-70 " Express, Straight | 39.50 |
| " A | —.45-75 " Straight | 36.00 |
| " A | —.45-90 " " | 58.00 |
| " A | —.45-105 " " | 60.00 |
| " 2½ | —.45-120 " " | 80.00 |
| " 2½ | —.45-125 Sharps' & Winch, Straight | 80.00 |
| " 1½ | —.45-70 Marlin Magazine | 35.00 |
| " 1½ | —.45-85 " " | 37.00 |
| " 2½ | —.45-70 Gov. Pchd., Express, Straight | 39.50 |
| " 2½ | —.45-70 " Grvd., " " | 38.50 |
| " 2½ | —.45-55 " Carbine | 35.00 |
| " 2½ | —.45-70 " Solid Head and Winchester | 35.00 |
| " 2½ | —.45-70 Government S. H. New Model | 38.00 |
| " 2½ | —.45-60 Winchester | 33.00 |
| " 2½ | —.45-75 " | 35.00 |
| " 2½ | —.45-82 " | 36.00 |
| " 2½ | —.45-85 " | 36.00 |
| " 2½ | —.45-85 " Express. | 38.00 |
| " 2½ | —.45-90 " Model 1886 | 36.00 |
| " 2½ | —.45-125 " Express. | 80.00 |
| " 2½ | —.45-60 Colt's M. R. | 33.00 |
| " 1½ | —.45-85 " " | 37.00 |
| " 1½ | —.45-85 Bullard Rifle | 37.00 |
| " 2½ | —.50-115 " Express. | 90.00 |
| " 2½ | —.50-115 " Solid Ball. | 90.00 |
| " A | —.50-90 Sharps, Straight | 58.00 |
| " 2½ | —.50-95 Winchester Express | 40.00 |
| " 2½ | —.50-95 " Solid Ball | 40.00 |
| " 2½ | —.50-100 " | 48.00 |
| " 2½ | —.50-110 " Express. | 48.00 |
| " 2½ | —.50-95 Colt's M. R. Express | 40.00 |
| " 2½ | —.50-95 " Solid Ball | 40.00 |
| " 2½ | —.50-70 Sporting | 44.00 |

**All packed 1000 in a case.**

## SMOKELESS CARTRIDGES







**Any of these Cartridges can be procured with either Soft Nose or Full Nickel Ball.**

| Primer. | | Per 1000. |
|---|---|---|
| No. 6½ | —.30-30 Winchester and Marlin | $38.00 |
| " 8½ | —.303 Savage | 38.00 |
| " 6½ | —.38-55 Winchester & Marlin | 40.00 |
| " 8½ | —.303 Savage Miniature Lead Ball | 30.00 |
| " 8½ | —.303 Savage Paper Patched Target Lead Ball | 38.00 |

# SHOT GUN SHELLS

## BRASS SHELLS



| | | 10 x 2⅞ | 12 x 2¾ | 14 x 2¾ | 16 x 2½ |
|---|---|---|---|---|---|
| American Best | per 100 | $10.50 | 10.00 | 10.00 | 10.00 |
| " 2nd | " | 8.00 | 8.00 | ..... | ..... |

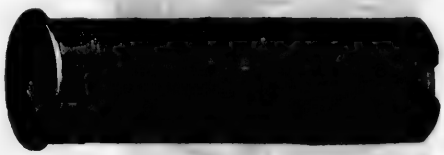
## PAPER SHELLS




| Size | | 10 x 2⅞ | 12 x 2⅞ | 12 x 2¾ | 14 x 2⅝ | 16 x 2⅝ | 20 x 2½ |
|---|---|---|---|---|---|---|---|
| Dominion Trap | per 1000 | $9.00 | .... | 8.00 | .... | 7.50 | .... |
| " Black | " | 9.00 | .... | 8.00 | .... | .... | .... |
| U. M. C. Black Club | " | 9.00 | .... | 8.00 | 7.50 | 7.50 | 7.50 |
| " Nitro | " | 9.00 | 9.00 | 8.00 | .... | 7.50 | 7.50 |
| Winchester Blue Rival | " | 9.00 | 9.00 | 8.00 | .... | .... | .... |
| " Repeater | " | .... | .... | 8.00 | .... | .... | .... |
| Eley Job | " | .... | .... | 8.00 | .... | .... | .... |

Pin Fire.....Price on application.

## LOADED SHOT SHELLS



### DOMINION TRAP, 12 GAUGE

| Load Number. | Weight of Powder. | Weight of Shot. | Size of Shot. | Price per 1000 |
|---|---|---|---|---|
| D | 3 Drs. | 1¼ Oz. | 4 | $20.50 |
| D | 3 " | 1⅛ " | 5 | 20.50 |
| D | 3 " | 1⅛ " | 6 | 20.50 |
| D | 3 " | 1⅛ " | 7 | 20.50 |
| D | 3 " | 1⅛ " | 8 | 20.50 |
| D | 3 " | 1⅛ " | 10 | 20.50 |
| G | 3½ " | 1⅛ " | 3 | 21.00 |
| G | 3½ " | 1⅛ " | 4 | 21.00 |
| G | 3½ " | 1⅛ " | 5 | 21.00 |
| G | 3½ " | 1⅛ " | 6 | 21.00 |
| G | 3½ " | 1⅛ " | 7 | 21.00 |
| G | 3½ " | 1⅛ " | 8 | 21.00 |
| G | 3½ " | 1⅛ " | 10 | 21.00 |
| J | 3¾ " | 1⅛ " | 3 | 21.50 |
| J | 3¾ " | 1⅛ " | 4 | 21.50 |
| J | 3¾ " | 1⅛ " | 5 | 21.50 |
| J | 3¾ " | 1⅛ " | 6 | 21.50 |
| J | 3¾ " | 1⅛ " | 8 | 21.50 |
| J | 3¾ " | 1⅛ " | 10 | 21.50 |

### DOMINION TRAP, 10 GAUGE

| Load Number. | Weight of Powder. | Weight of Shot. | Size of Shot. | Price per 1000 |
|---|---|---|---|---|
| Q | 4 Drs. | 1¼ Oz. | 3 | $23.50 |
| Q | 4 " | 1¼ " | 4 | 23.50 |
| Q | 4 " | 1¼ " | 5 | 23.50 |
| Q | 4 " | 1¼ " | 6 | 23.50 |
| Q | 4 " | 1¼ " | 8 | 23.50 |
| Q | 4 " | 1¼ " | 10 | 23.50 |
| U | 4½ " | 1¼ " | 3 | 24.00 |
| U | 4½ " | 1¼ " | 4 | 24.00 |
| U | 4½ " | 1¼ " | 5 | 24.00 |
| U | 4½ " | 1¼ " | 6 | 24.00 |
| U | 4½ " | 1¼ " | 8 | 24.00 |
| U | 4½ " | 1¼ " | 10 | 24.00 |

# LOADED SHOT SHELLS

## AMERICAN



| 12 GAUGE | | | | | 10 GAUGE | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Load No. | Weight of Powder. | Weight of Shot. | Size of Shot. | Price per 1000. | Load No. | Weight of Powder. | Weight of Shot. | Size of Shot. | Price per 1000. |
| **100** | 3 Drs. | 1 Oz. | 10 | $25.00 | **210** | 4 Drs. | 1¼ Oz. | 10 | $29.00 |
| **106** | 3 " | 1 " | 6 | 25.00 | **244** | 4 " | 1¼ " | 4 | 29.00 |
| **96** | 3 " | 1⅛ " | 6 | 26.00 | **246** | 4 " | 1⅛ " | 6 | 29.00 |
| **98** | 3 " | 1⅛ " | 8 | 26.00 | **247** | 4 " | 1⅛ " | 7 | 29.00 |
| **122** | 3½ " | 1⅛ " | 2 | 26.50 | **256** | 4 " | 1½ " | 6 | 30.00 |
| **123** | 3½ " | 1⅛ " | 3 | 26.50 | **258** | 4 " | 1½ " | 8 | 30.00 |
| **124** | 3½ " | 1⅛ " | 4 | 26.50 | **274** | 4½ " | 1¼ " | 4 | 30.50 |
| **125** | 3½ " | 1⅛ " | 5 | 26.50 | **275** | 4½ " | 1½ " | 5 | 30.50 |
| **126** | 3½ " | 1⅛ " | 6 | 26.50 | **276** | 4½ " | 1½ " | 6 | 30.50 |
| **127** | 3½ " | 1⅛ " | 7 | 26.50 | **277** | 4½ " | 1¼ " | 7 | 30.50 |
| **128** | 3½ " | 1⅛ " | 8 | 26.50 | **278** | 4½ " | 1½ " | 8 | 30.50 |
| **134** | 3½ " | 1⅛ " | 4 | 27.00 | **282** | 4½ " | 1⅛ " | 2 | 30.00 |
| **135** | 3½ " | 1⅛ " | 5 | 27.00 | **283** | 4½ " | 1⅛ " | 3 | 30.00 |
| **136** | 3½ " | 1⅛ " | 6 | 27.00 | **296** | 4½ " | 1½ " | 6 | 31.00 |
| **191** | 3¾ " | 1⅛ " | BB | 29.50 | **298** | 4½ " | 1½ " | 8 | 31.00 |

## HAND LOADED SMOKELESS SHOT SHELLS

Loaded with C. & H. Amberite Powder.

| 12 GAUGE | | | | 10 GAUGE | | | |
|---|---|---|---|---|---|---|---|
| Weight of Powder. | Weight of Shot. | Size of Shot. | Price per 1000. | Weight of Powder. | Weight of Shot. | Size of Shot. | Price per 1000. |
| 3 Drs. | 1⅛ Oz. | Any number 1 to 10 | $47.75 | 3½ Drs. | 1¼ Oz. | Any number 1 to 10 | $52.50 |

Price on application of any Special Loads.

## GUN CAPS

### PRIMERS





| | | | | | | | Per 1000. |
|---|---|---|---|---|---|---|---|
| Dominion | 1 | 1½ | 2 | 2½ | | | $2.00 |
| U. M. C. | 1 | 1½ | 2 | 2½ | 3 | 5 | 8½ 2.00 |
| Winchester | 1 | 1½ | 1½W | 2 | 2½W | 3W | 2.00 |

### PERCUSSION CAPS



| | | | | | | | Per 1000. |
|---|---|---|---|---|---|---|---|
| E. B. | 10 | 11 | 12 | 13 | 14 | 18 | $0.83 |
| U. M. C. | 10 | 11 | 12 | | | | 0.90 |

### MILITARY CAPS

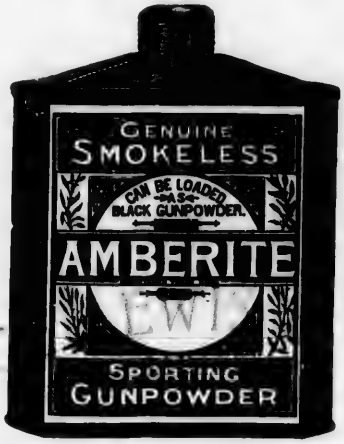


Per 1000.

Snider-Enfield Size .... $1.35

# POWDER

**SOLE AGENTS FOR CURTIS'S & HARVEY'S BLACK AND NITRO POWDERS**




### C. & H. BLACK POWDER

| | F | FF | FFF | T.P |
|---|---|---|---|---|
| 25 lb. Kegs.....per keg. | $5.30 | 5.65 | 5.95 | 9.40 |

### C. & H. "HONKER" DUCKING POWDER

Coarse or Medium Grain.

| | 25 | 12½ | 6¼ | 1 lb. tins. |
|---|---|---|---|---|
| Per Tin..... | $12.50 | 6.50 | 3.30 | 0.55 |

### C. & H. CELEBRATED "DIAMOND GRAIN"

| Nos | | 4 | 6 |
|---|---|---|---|
| 25 lb. Kegs | per keg. | $18.75 | 18.75 |
| 12½ " | " | ..... | 10.15 |
| 1 lb. Tins | per doz. | ..... | 11.25 |
| ½ " | " | 6.25 | ..... |

### HAMILTON BLASTING POWDER

25 lb. Kegs.....per keg. 2.50

### C. & H. AMBERITE SMOKELESS POWDER

| Tins | ½ | 1 | 5 lb. |
|---|---|---|---|
| Per lb. | $2.20 | 2.05 | 2.00 |

Amberite Smokeless Powder contains no Nitro-Glycerine, gives a high muzzle velocity with low pressure and is quick in ignition. It is a hard, clean grain, and practically unaffected by cold, heat or moisture. It is a safe and pleasant powder to shoot with and loads measure for measure with Black Powder.

### SAVAGE SMOKLESS POWDER

No. 1.....For High Pressure Savage Cartridges.
" 2.....For Miniature " "
In Tins (about 1 lb.).....per tin. $1.85

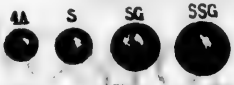
### DYNAMITE

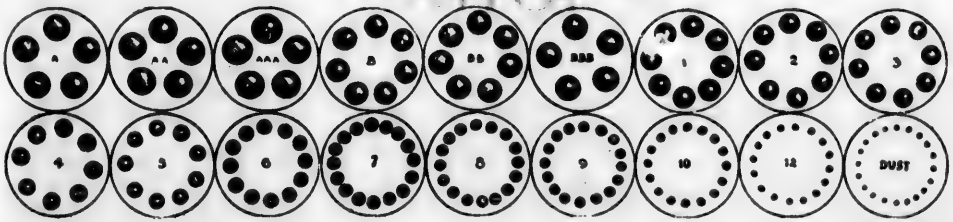
30% 40% 50% 60% 75%

Price on Application.

Detonators.....per 1000. $11.25

## SHOT




Soft Shot, Dust to No. 3A.....per lb. $0.06
" 4A, S, SG, and SSG (Buck Shot)..... " 0.07
Chilled Shot, Dust to No. 3A..... " 0.06½

**Approximate Number of Pellets to the Ounce.**

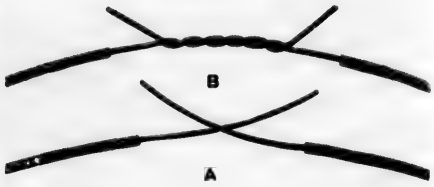
| Dust, or No. | 12 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | B | BB | BBB | A | AA | AAA | AAAA | SS | SG | SSG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 963 | 882 | 560 | 375 | 278 | 209 | 166 | 121 | 98 | 92 | 69 | 58 | 49 | 44 | 38 | 32 | 27 | 24 | 15 | 11 | 10 |

# ELECTRIC BLASTING SUPPLIES




SHOWING CHARGE HOLES CONNECTED IN SERIES

MAKING THE JOINT




This illustration represents the usual way of making joints. First cross the ends of the wire as shown in Cut **A**, then twist the ends as shown in Cut **B**, being particular to twist close and tight, as a slack joint or twist is not a good connection; be sure to have the ends clean and bright. Keep bare joints off the ground and out of the water. Where it is not convenient to do so, they should be covered with insulating tape.

**A**, hole in rock; **B**, dynamite charge in hole; **C**, electric fuses in dynamite charge; **D**, connecting wire joining fuse wires together; **E**, leading wire from battery to fuse wires; **F**, electric blasting machine or battery.

The above cut represents clearly the manner of connecting holes for firing by electricity. It is called "connecting in series," and is the system universally adopted. The electric fuse wire should be about the same length as the hole is deep; better to have the wire a little longer, that it may project above the surface of the hole after it is tamped, for the purpose of connecting it to the wire of the next hole.

## BLASTING MACHINES



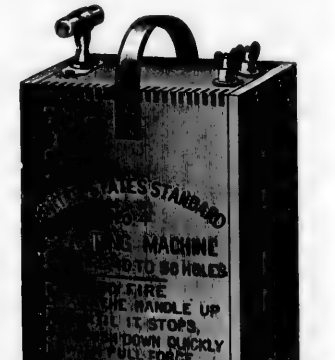
VICTOR No. 1




No. 3, PULL UP




No. 3, PUSH




No. 4, PUSH

| | VICTOR No. 1 | No. 3, PULL UP | No. 3, PUSH | No. 4, PUSH |
|---|---|---|---|---|
| Each..... ..... | $30.00 | 37.50 | 37.50 | 75.00 |

# ELECTRIC BLASTING SUPPLIES

## INSULATING TAPE



## LEADING WIRE



| | | |
|---|---|---|
| **Insulating Tape** | per lb. | $3.00 |
| **Leading Wire** | " | 0.50 |

## CONNECTING WIRE



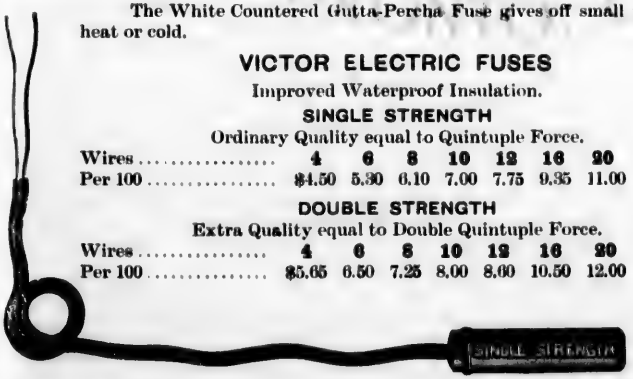

| | | |
|---|---|---|
| **Connecting Wire** | per lb. | 0.50 |

## BENNETT'S CELEBRATED BLASTING FUSE

In 50 ft. lengths, papered.

| | | |
|---|---|---|
| **Single Tape Fuse** | per 1000 feet | $4.90 |
| **Double " ** | " | 6.75 |
| **White Countered Gutta-Percha Fuse** | " | 7.15 |

The White Countered Gutta-Percha Fuse gives off small volume of smoke, and is not affected by heat or cold.




## VICTOR ELECTRIC FUSES

Improved Waterproof Insulation.

### SINGLE STRENGTH

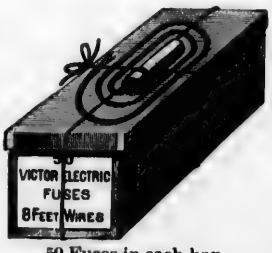
Ordinary Quality equal to Quintuple Force.

| Wires | 4 | 6 | 8 | 10 | 12 | 16 | 20 | 24 feet. |
|---|---|---|---|---|---|---|---|---|
| Per 100 | $4.50 | 5.30 | 6.10 | 7.00 | 7.75 | 9.35 | 11.00 | 14.00 |

### DOUBLE STRENGTH

Extra Quality equal to Double Quintuple Force.

| Wires | 4 | 6 | 8 | 10 | 12 | 16 | 20 | 24 feet. |
|---|---|---|---|---|---|---|---|---|
| Per 100 | $5.65 | 6.50 | 7.25 | 8.00 | 8.60 | 10.50 | 12.00 | 15.00 |




50 Fuses in each box.

# GUN WADS

## ELASTIC







| Gauge | | 8 | 9-10 | 11 and smaller. |
|---|---|---|---|---|
| Eley's, Chemically Prepared, Black Edge | per 1000 | $1.20 | 1.10 | 1.05 |
| U. M. C., " " " | " | .... | 1.16 | 1.00 |
| U. M. C., " " Pink Edge | " | .... | 2.07 | 1.65 |

## THICK FELT WADS

| | | BROWN | GREY |
|---|---|---|---|
| Eley's, in ½-pound bags | per 1000 | $1.00 | 1.10 |

## THIN CARD WADS

| Gauge | | 10 | 12 and smaller. |
|---|---|---|---|
| Eley's | per 1000 | $0.30 | 0.25 |

| Gauge | | 10 | 11 and smaller. |
|---|---|---|---|
| U. M. C. | per 1000 | $0.37 | 0.30 |

## WAD CUTTERS



| Gauge | | 8 to 9 | 10 to 16 |
|---|---|---|---|
| Steel, Indented, | per doz. | $2.45 | 1.80 |

## GUN LOCKS

| | | |
|---|---|---|
| Fright, Front Action | per doz. | $10.00 |
| " Back " | " | 10.50 |

## GUN HAMMERS

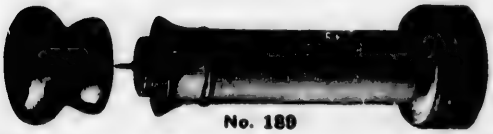
Muzzle.....per doz. $1.65 | Finished Breech.....per doz. $3.00 | Breech Blanks.....per doz. $2.00

## GUN WORMS

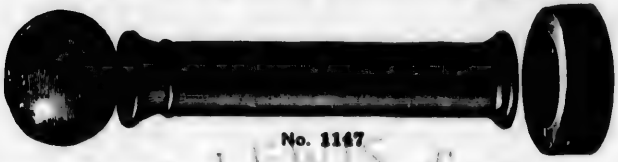
| Size | | No. 262 x ¼ | No. 263 x 5/16 | No. 264 x ⅜ |
|---|---|---|---|---|
| Price | per gross | $5.75 | 6.65 | 8.65 |

# GUN IMPLEMENTS

## LOADERS



No. 189



No. 1147

No. **189**—Birch, Polished Nickel Spun Tube and Fine Steel Expelling Pin, 10 and 12 Gauge .....per doz. $ 1.00
" **1147**—Barclay Pattern, Boxwood Head and Base, Brass Tube with Inside Spring, the Spring protects the mouth of Shell and seats Wad properly, 10 and 12 Gauge.....per doz. 10.30

## RECAPPER

Per doz.
No. **1180B**—Japanned Finish, 10 to 16 Gauge. $0.60



No. 1180B

## SHELL EXTRACTORS



No. X



No. 1175

No. **X**—Ringed Extractor, Nickeled Iron, 10 to 12 Gauge .....per doz. 0.30
" **1175**—Hook " Polished and Nickel-Plated, 10 and 12 Gauge ..... " 1.65



## FIELD CLEANER

Made for 10 and 12 Gauge Guns Only.

No. **442**—Cleaner consists of a stiff bristle brush with double slotted wiper, to which is attached a string with weight. Each Cleaner is sent out in a fine leather pouch with clasp. Drop the weight through your gun barrel, and you can then pull the brush through, removing the dirt quite as effectively as you could with the rod. It can be carried in the vest pocket. 10 and 12 Gauge.....per doz. 12.00

# GUN IMPLEMENTS

## CLEANING ROD



No. 95

No. **95**—Cleaning Rod, including Scratch Brush, Wiper and Swab, 10 to 12 Gauge ..... per doz, 25.10

## CLEANING ROD ATTACHMENTS



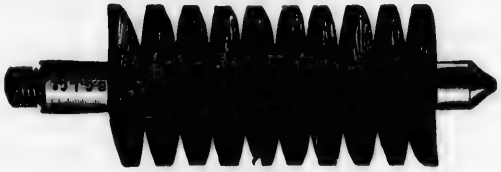
No. 212E



No. 232E



No. 202E



No. 248

| | | | |
|---|---|---|---|
| No. **212E**— | Wire Scratch Brush, 10 to 12 Gauge | per doz. | 0.05 |
| " **232E**— | Wiper Ends, 10 to 12 Gauge | " | 0.40 |
| " **202E**— | Wool Swab, 10 to 12 " | " | 1.05 |
| " **248** — | Twisted Wire Bristle Brush, 10 to 20 Gauge | " | 3.30 |
| " **248B**— | " " Brass Wire Brush, 10 to 12 Gauge | " | 8.75 |

## BUDD, PETMECKY GUN CLEANERS





Brass Spring Wire Brush with Case, 10 to 12 Gauge ..... per doz. 9.60

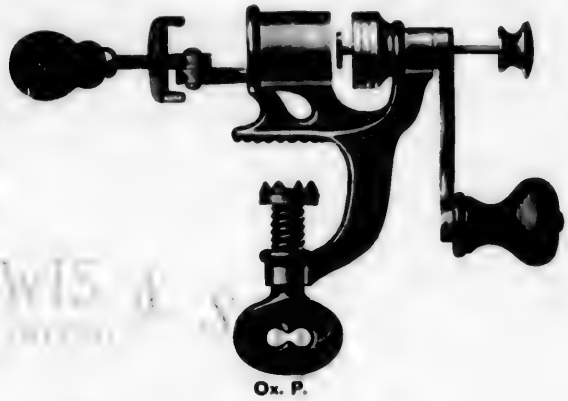
## POWDER AND SHOT MEASURES



| | | | |
|---|---|---|---|
| No. **20R** | —New Model Birch Rammer Handle, Polished Nickel Cup | per doz. | 1.05 |
| " **20RC**— | " Cocobolo " " " " | " | 1.40 |

# GUN IMPLEMENTS

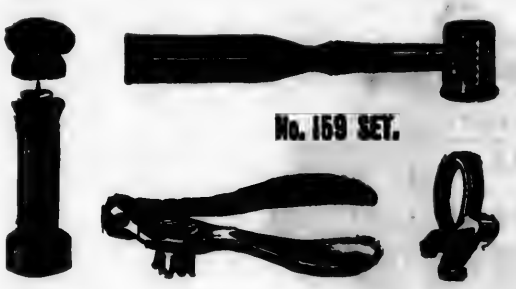
## SHELL CLOSERS



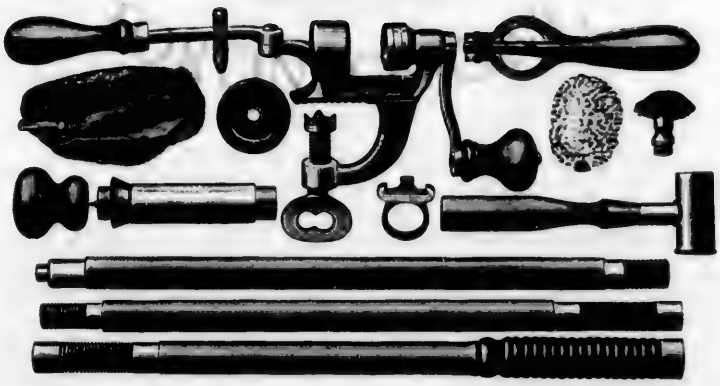
Ox. P.

| | per doz. |
|---|---|
| No. **O**—Japanned Case Hardened Lever, Brass Cup, 10 and 12 guage.... | $4.00 |
| " **Ox. P.**—Same as **O**, but with expelling pin..... | 5.10 |
| " **3**—Japanned, Brass Nickel-Plated Cup, With Hardened Steel Pins, Changeable for Either Round or Square Crimp..... | 26.25 |

## LOADING SETS



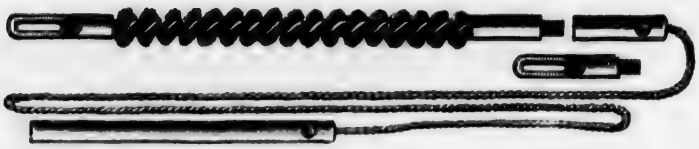

**No. 159**—Brass Shell Set, Four Implements, viz.: Loader, Capper, Shell Extractor, Shot and Powder Measure, 10 to 12 gauge.....per doz. set $4.20



No. **161**—Brass and Paper Shell Set, 6 Implements, viz.: Loader, Closer, Capper, Extractor, Measure, Cleaning Rod, with Swab Wiper and Scratch Brush, 10 to 16 gauge.....per doz. set 14.00

# RIFLE IMPLEMENTS

## FIELD CLEANER



**No. 250**—Bristle Brush and Slotted Wiper, extra Slotted Wiper for Dry Cloth and Oiling, with Weight for dropping through Barrel, .22 to .50 Calibre.....per doz. $0.60

## CLEANING ROD



**No. 141B**—4 Jointed Brass Rod, Slotted and Jagged, with Revolving Handle, Thread Tip for attaching Brush.....per doz. 6.00

## CLEANING BRUSHES



Suitable for No. 250 Cleaner and No. 141B Rod.

**No. 246** —Bristle Brush, Twisted Wire Frame and Brass Shank, .22 to .50 Calibre.....per doz. 3.30
" **246S**—Brass Wire Brush, Twisted Wire Frame and Brass Shank, .20 to .50 Calibre..... " 3.30

## FLOBERT CLEANING RODS

**No. 143**—Twisted Wire Rod with Bristle Brush, wound in Tip, .22 to .32 Calibre.....per doz. 0.60
" **151**—Iron Rod, Slotted Ring Handle, .22 to .32 Calibre..... " 0.60

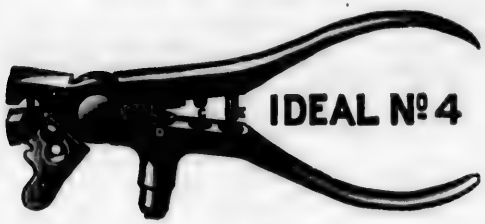
## IDEAL BULLET MOULDING SET




Dipper for Running Lead into the Mould.....each 0.50
Melting Pot..... " 0.50
" Holder..... " 0.50

# RIFLE IMPLEMENTS

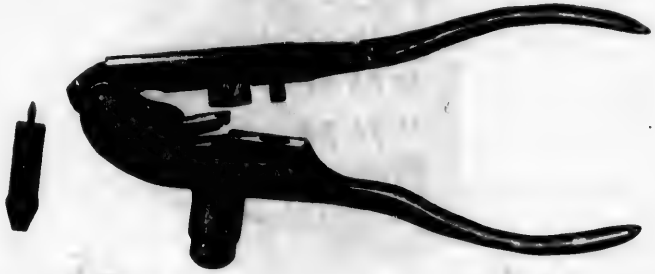
## IDEAL RELOADING TOOLS




| | | | |
|---|---|---|---|
| No. 1— | For Reloading .32 Shot, .32 Long, .32 and .38 S. & W., &c. ..... per set | | $2.25 |
| " 2— | " " .32-44 S. & W., Target or Gallery, .38-44 S. & W., Target or Gallery ..... | " | 4.75 |
| " 3— | " " .303 Savage, Single Chamber, Without Mould ..... | " | 4.35 |
| " 3— | " " .303 " Double " " ..... | " | 5.10 |
| " 4— | " " .32-20, .38-40, .44-40 ..... | " | 2.50 |
| " 6— | " " .32-40, .38-55, .38-56, .40-60W, .40-60M, .40-65, .40-82, .45-60, .45-70W, .45-70M ..... | " | 3.00 |
| " 6— | " " .303 Savage, Without Mould ..... | " | 3.00 |

## WINCHESTER RELOADING TOOLS

### LEVER MODEL



For Reloading all Pistol Sizes, and .32, .38 and .44, Winchester Model, 1873 ..... per set 2.50

### NEW MODEL



For Reloading all Sporting and Military Cartridges, .32-40, 38-55, .38-56, .40-60, .40-82, etc ..... per set 3.00

# RIFLE IMPLEMENTS

## BULLET MOULDS



| | | |
|---|---|---|
| Winchester Make for all Pistol Sizes and .32, .38, .44W Model 1873 | each | $1.10 |
| " " " Sporting and Military Sizes | " | 1.10 |
| " " " Express Cartridges | " | 1.75 |
| Ideal Make for Savage Miniature .303 | " | 1.00 |
| " Perfection Mould, Adjustable for Moulding Different Weights of Bullets for any one Calibre, .32-40, .38-55, etc. | each | 4.00 |

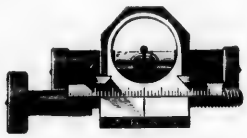
## RE-SIZING TOOLS

| | | |
|---|---|---|
| Ideal for Re-sizing any Calibre Rifle Cartridge | each | 2.00 |

## RIFLE SIGHTS, FRONT



GLOBE



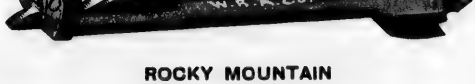
WIND GAUGE



VERNIER

| | | |
|---|---|---|
| Globe Front Sight with Interchangeable Discs | each | 1.25 |
| Wind Gauge Front Sight with 3 Discs, Interchangeable | " | 3.00 |
| " " " 3 " " and Spirit Level, | " | 4.00 |
| Bulbs for Spirit Level | " | 0.15 |

## RIFLE SIGHTS, REAR




ROCKY MOUNTAIN

| | | |
|---|---|---|
| Rocky Mountain Rear Sight, Winchester | each | 0.80 |
| " " Marlin, for Model 91 and 92, etc | " | 0.80 |
| " " " " 89 and 94, etc. | " | 0.80 |
| Sporting Leaf Sight to Fit in Rear Slot | " | 1.50 |
| Rear Midrange Vernier Peep Sight | " | 4.00 |

# LYMAN'S PATENT SIGHTS.

**Combination Rear Sight.**

*The Principle of Perfect Alignment.*

When aiming this sight has the appearance of a ring or hoop, which shows the front sight and the object aimed at, without intercepting any part of the view.



It will be noticed in the deer cut that the top of rifle barrel and front sight are seen as distinctly as if no rear sight was used.

These sights more than double the value of a rifle, either for hunting or target shooting; for instantaneous aim can be taken with great accuracy.

The large aperture should be used for nearly all shooting.

This cut shows the POINT BLANK stop-pin in the sight stem, to prevent the sight from being turned down too low.

Any one can attach these sights to a rifle in a few minutes.

☞ When ordering give make and size of rifle.



No. 1. Price $3.00.

**Ivory Bead Front Sight.**



**Ivory Hunting Front Sight.**



These sights can be seen distinctly against any object in the woods or in the bright sunlight.

No. 3 Price $1.00. No. 4. Price 50.

**Ivory Combination Front Sight.**



No. 5. Price $1.00.

This is an excellent sight for "all round" use. The cuts show the open ivory and the shaded globe.

**Sporting Wind-guage Sight.**



No. 8. Price $3.00.

A good sight for general shooting. It is the Combination Front Sight on the wind-gauge base.

**Wind-guage Target Sight.**



Showing Aperture.



Showing Globe.

No. 7. Price $3.50.

This is the best Wind-guage ever made for a Match Rifle. It has a reversible globe and aperture which can be changed quickly. It is compact in form, being close to the barrel. When set for a given point of wind it is locked by a spring clamp firmly in position.

**NOTICE.**

The front sight, blank, spirit level and leaf sight should be driven into the barrel slot from the right-hand side.

**Combination Rear Sight, showing the small aperture in use.**



No. 1. Price $3.00.

**Combination Rear Sight, with Cup Disc.**



No. 2. Price $3.50.

This sight has a large detachable disc and is intended for Match Rifles and Gallery Rifles. It is not as good for "all round" shooting as the $3.00 combination sight. Many target shooters like it, as it is much better than the Vernier peep sight.

The disc is easily removed, and for most work is not needed.

For gallery practice the aperture in the disc can be enlarged to advantage.

When ordering, give the make and size of rifle.



**IVORY SHOT GUN SIGHTS.**

A New System of Sighting Shot Guns.



No. 9. Price, per set, $1.00.

The left-hand cut shows the large muzzle or front sight. The right-hand cut the small rear sight which is placed about sixteen inches from the muzzle sight.

The first engraving gives the appearance of the sights when aiming at a straight-way bird. The elevation of the gun is right, but the rear sight shows that the gun is out of line, which would not be discovered if these sights were not used. This system is a great help both in field and at the trap.

**Leaf Sight.**



Both leaves folded down. Using the straight bar. Using the crotch

No. 6. Price $1.00.

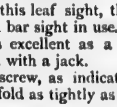
One leaf is a bar with a triangular ivory center, the other is a wide open V crotch.

Many sportsmen who use the Lyman rear sights do so with the ordinary crotch sight on the barrel. This is much in the way and the shooting is done at a great disadvantage. Lyman's leaf sight can be put in place of it. It folds down close to the barrel, allowing the shooter to use the combination sight in an unobstructed manner, and the result is that the shooting is twice as good as when the ordinary crotch sight is on the barrel. Although the shooter should in any case use the Lyman tang sights for nearly all shooting, he has the satisfaction of knowing that if he wishes to use this leaf sight, that it is the best form of crotch and bar sight in use.

The bar leaf is excellent as a twilight sight or when used at night with a jack.

The right-hand screw, as indicated by arrow, ad justs the leaves to fold as tightly as desired.

**Slot Blank.**



No. 12. Price 25c.

This Slot Blank can be used to replace the ordinary crotch sight, if the leaf sight is not used.

Send for free Catalogue of Sights, giving testimonials and full information.

# GUN AND RIFLE COVERS

## FULL LENGTH CANVAS



No. 46B

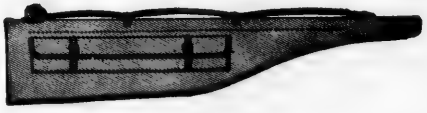
| | | | |
|---|---|---|---|
| No. **10** | —Brown or Drab Canvas, with Button Flap, without Handle, 24 to 30 inch | per doz. | $3.00 |
| " **46B** | —Brown or Tan Duck, Leather Bound, with Handle for Repeating Rifles, 24 and 26 inch | " | 8.00 |
| " **46C** | —Same as 46B, for Shot Guns, 30 inch | " | 9.10 |
| " **50B** | —Heavy Waterproof Tan Duck, Leather Bound, Flannel Lined, with Sling Strap, for Magazine Rifles, 24 to 26 inch | per doz. | 12.00 |
| " **50C** | —Same as 50B, for Shot Guns, 30 inch | " | 12.00 |



No. 051B

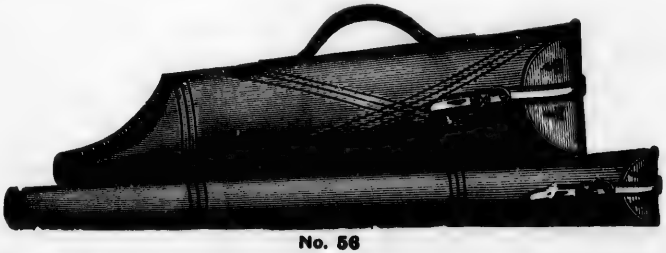
| | | | |
|---|---|---|---|
| No. **051B** | —Heavy Waterproof Tan Duck, Leather Bound, Flannel Lined, Lock and Muzzle Leather Protected, with Combination Sling and Handle for Repeating Rifles, 24 and 26 inch | per doz. | 18.00 |
| " **051C** | —Same as 051B, for Shot Guns, 30 inch | " | 18.00 |

## MUTTON LEG



No. 056B

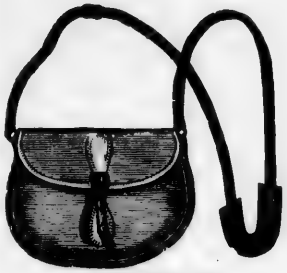
| | | | |
|---|---|---|---|
| No. **66C** | —Heavy Waterproof Tan Duck, Leather Bound, Flannel Lined, Leather Muzzle Protector, with Combination Sling and Handle | per doz. | 19.50 |
| " **056B** | —Heavy Oak Tan Leather, Flannel Lined, with Handle and Sling Strap, Rod Pocket, Nickel Trimmings | each. | 5.45 |
| " **061** | —Heavy Oak Tan Leather, Flannel Lined, with Handle and Sling Strap, Rod Pocket, with Lock Buckle | each. | 7.75 |



No. 56

| | | | |
|---|---|---|---|
| No. **63F** | —Tan Duck, Leather Bound, Flannel Lined, with Handle | per doz. | 10.10 |
| " **62F** | —Same as 63F, but has Tool Pocket | " | 12.75 |
| " **64F** | —Heavy Waterproof Tan Duck, Leather Bound, Flannel Lined, with Tool Pocket and Handle | " | 16.50 |
| " **66F** | —Same as 64F, but has Lock and Muzzle Leather Protected | " | 20.45 |
| " **56** | —Heavy Oak Tanned Leather, Embossed, with Rod Pocket | each. | [illegible] |

# CARTRIDGE BAGS



CARTRIDGE BAG



CARTRIDGE BELT



REVOLVER HOLSTER



HUNTING COAT

| | Per doz. |
|---|---|
| No. **76**—Heavy Tan Duck, Leather Bound, Double Pocket, holds 50 Shells | $6.75 |
| " **83**—Extra Heavy Tan Duck, Leather Bound, Double Pocket, holds 75 Shells | 11.40 |

## GAME BAGS

| | |
|---|---|
| No. **100C**—Heavy Tan Duck, Leather Bound, Medium Size, with Shoulder Strap | 14.00 |

## BELTS

| | |
|---|---|
| No. **91**—Russet Leather, 2 inch wide, Plain, with Roller Buckle | 4.30 |
| " **98**— " " " 2¼ " " with Leather Loops, holds from 30 to 36 Cartridges, any calibre | 10.00 |
| " **194**—Canvas, with Leather Loop, 10 and 12 Gauge, holds about 25 Shells | 5.45 |
| " **195**—Same as 194 but with Shoulder Strap | 7.15 |
| " **93**—Russet Leather, 2¼, with Leather Loops and Shoulder Strap, 10 and 12 Gauge, holds about 25 Shells | 12.00 |

## REVOLVER HOLSTERS

| | |
|---|---|
| No. **101**—32 Calibre, Russet Leather with Flap | 6.65 |
| " **102**—38 " " " " " " | 7.50 |
| " **104**—38 x 6 " New Navy Revolver, Russet Leather with Flap | 10.25 |

## HATCHET COVERS

| | |
|---|---|
| Russet Leather with Belt Loops, to fit Tomahawk, or Hunter Pattern Axe | 7.75 |

## HUNTING COATS

| | |
|---|---|
| No. **1**—Heavy Drill, Dead Grass Color, 6 Outside Pockets, 2 Inside Skirt Game Pockets | 16.00 |
| " **3**—8 ounce Duck, Dead Grass Color, Corduroy Collar, 6 Outside Pockets with Flaps, Full Inside Game Pockets | 23.25 |
| " **5**—8 ounce Army Duck, Double Stitched, Dead Grass Color, Drill Lined, Corduroy Collars and Cuffs, 6 Reinforced Outside Pockets with Flaps, 3 Game Pockets with Front Edge and Back Seam Entrance, Shoulders Reinforced | 30.75 |
| " **12**—Best Quality 10 ounce Army Duck, Dead Grass Color, Full Lined 8 ounce Army Duck, otherwise same as No. 5. | 47.00 |
| | Each |
| " **14**—Heavy Tan Duck and Corduroy Reversible Patent Buttons Pockets both sides | 5.15 |
| " **20**—Black Leather, Oil Tanned, Waterproof Tweed Lining, Patent Buttons | 6.75 |
| " **30**—Same as 20 but Corduroy Lined | 7.15 |
| " **40**—Green or Tan Leather, Oil Tanned, Waterproof and Corduroy Reversible Patent Buttons, pockets both sides | 9.75 |

## VESTS

| | Per doz. |
|---|---|
| No. **5**—8 ounce Army Duck, Dead Grass Color, with Loops for 46 Shells, will fit .10 or .12 Gauge. | 18.00 |

## PANTS

| | |
|---|---|
| No. **17**—8 ounce Army Duck, Dead Grass Color, 4 Patch Pockets Double Stitched | 20.00 |

# CAPS



No. **31D**—English Corduroy, Windsor Style.....per doz. $18.50

## LEGGINGS



No. **15**—Knee, Heavy Canvas, Tan Color, to Buckle, Leather Bound Top and Bottom.....per doz. $12.70
" **16**— " " " to Lace, " all Round..... " 12.70
" **5**— " 20 ounce, Waterproof Canvas, Tan Color, to Buckle, Tape Seams, Leather Bound Top and Bottom.....per doz. 17.50

## BLUE ROCKS



500 in Barrel.....per 1000 $7.50

## DUCK CALLS



No. **760H**—With Horn End, Brass Tongue, per doz. 6.10
" **760** — " Plated End, " " 3.40

## EXPERT TRAPS



Expert Traps.....each 6.00

## DECOY DUCKS



Best Quality, Ordinary Sizes, Black or Grey Mallards. Prices on application.

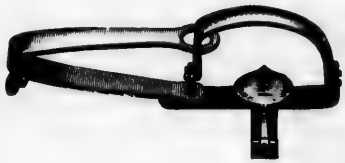
# STEEL GAME TRAPS

## NEW VICTOR




| Nos. | 0 | 1 | 1½ | 2 | 3 |
|---|---|---|---|---|---|
| New Victor, with Chains ..... per doz. | $4.25 | 5.00 | 7.50 | 10.50 | 14.00 |
| " without Chains ..... " | 3.25 | 3.75 | 6.00 | 9.00 | 12.00 |

## NEWHOUSE PATTERN



SINGLE SPRING



DOUBLE SPRING

| Nos. | 0 | 1 | 1½ | 2 |
|---|---|---|---|---|
| With Chains ..... per doz. | $4.25 | 5.00 | 7.50 | 10.50 |
| Without Chains ..... " | 3.25 | 3.75 | 6.00 | 9.00 |
| Discount, Newhouse ..... % | | | | |
| " Hawley & Norton ..... % | | | | |

No. 0 adapted for Rat or Gopher, No. 1 for Muskrat, and No. 1½ for Mink.

| Nos. | 2 | 3 | 4 |
|---|---|---|---|
| With Chains ..... per doz. | $10.50 | 14.00 | 16.50 |
| Without Chains ..... " | 9.00 | 12.00 | 14.50 |
| Discount, Newhouse ..... % | | | |
| " Hawley & Norton ..... % | | | |

No. 2 adapted for Fox, No. 3 for Otter, No. 4 for Beaver.

## NEWHOUSE BEAR TRAPS




| | |
|---|---|
| No. 5—With Chain, Weight 18 lbs., Spread of Jaws 11½ inches ..... per doz. | $140.00 |
| Extra Springs for No. 5 Bear Traps ..... " | 36.00 |

Bear Trap Clamps, see page 76.

# SKATES




**Nos. 5 to 10**

| | | | |
|---|---|---|---|
| No. | **5**—Halifax Pattern, Steel Runners, Curved, Ordinary Finish, Sizes 7 to 12 inch ..... | per pair | $0.60 |
| " | **9**— " " " " Full Nickel-Plated and Polished, Sizes 8 to 12 inch | " | 1.30 |
| " | **7**—Henry Boker's Halifax Pattern, Best Quality Welded and Tempered Steel Runners, Curved, Fine Finished, Sizes 7½ to 12 inch ..... | " | 1.30 |
| " | **10**—Henry Boker's Halifax Pattern, Best Quality Welded and Tempered Steel Runners, Full Nickel-Plated and Polished, Sizes 8 to 12 inch ..... | " | 1.90 |




**No. 12**

| | | | |
|---|---|---|---|
| No. | **12**—Henry Boker's Halifax Pattern, Best Quality Welded and Tempered Steel Runners, Curved, Concaved, Full Nickel-Plated and Polished, Sizes 9 to 11½ inch ..... | per pair | 3.20 |




**No. 401 and 402**

| | | | |
|---|---|---|---|
| No. | **401**—Henry Boker's Victoria Club, Best Quality Welded and Tempered Steel Runners, Curved, Fine Finished, Sizes 8½ to 11½ inch ..... | per pair | 1.20 |
| " | **402**—Henry Boker's Victoria Club, Best Quality Welded and Tempered Steel Runners, Curved, Full Nickel-Plated and Polished, Sizes 8½ to 11½ inch ..... | " | 2.20 |




**No. 411 and 412**

| | | | |
|---|---|---|---|
| No. | **411**—Henry Boker's Crescent, Best Quality Welded and Tempered Steel Runners, Curved, Fine Finished, Improved Top Plates, Sizes 8 to 12 inch ..... | per pair | 1.40 |
| " | **412**—Henry Boker's Crescent, Best Quality Welded and Tempered Steel Runners, Curved, Full Nickel-Plated and Polished, Improved Top Plates, Sizes 8 to 11 inch ..... | " | 2.20 |

# SKATES




**No. 414**

**No. 414**—Henry Boker's Beauty, Best Quality Welded and Tempered Steel Runners, Curved, Concaved, Full Nickel-Plated and Polished, Improved Top Plates, Sizes 8 to 11½ inch. ..... per pair **$2.70**




**No. 457P**

**No. 457P**—Henry Boker's, Pride, Extra Extra Quality Welded and Tempered Steel Runners, Curved, Full Nickel-Plated and Polished, with Improved Pattern Polished Top Plates (right and left) and Patented Cup Brackets, especially designed for fancy skating, Sizes 8 to 11½ inch. per pair 4.20




**No. 115B**

**No. 115B**—Henry Boker's, Ideal, Extra Extra Quality Welded and Tempered Steel Runners, Curved, Concaved, Full Nickel-Plated and Polished, with Polished Top Plates (Handsome Gents' Skates), Sizes 10½ to 12 inch ..... per pair 5.20




**No. 115BD**

**No. 115BD**—Henry Boker's, Ideal, Extra Extra Quality Welded and Tempered Steel Runners, Curved, Full Nickel-Plated and Polished, with Polished Top Plates (Handsome Ladies' Skates) Sizes 8½ to 10 inch ..... per pair 5.20

# HOCKEY SKATES




**Nos. 510½ and 511**

No. **510½**—Hockey, Steel Runners, Straight, Ordinary Finish, Improved Top Plates, 7½ to 12 inch...per pair $0.70

" **511** —Henry Boker's, Hockey, Best Quality Welded and Tempered Steel Runners, Straight, Fine Finished, Improved Top Plates, Sizes 8 to 12 inch.....per pair 1.45




**Nos. 531 and 532**

No. **531**—Henry Boker's, Royal Hockey, Best Quality Welded and Tempered Steel Runners, Straight, Fine Finished, with Improved Pattern Blued Top Plates, and Patented Cup Brackets, Sizes 8 to 12 inch.....per pair 1.55

" **532**—Henry Boker's, Royal Hockey, Best Quality Welded and Tempered Steel Runners, Straight, Full Nickel-Plated and Polished, with Improved Pattern Top Plates, and Patented Cup Brackets, Sizes 9 to 12 inch.....per pair 2.30




**Nos. 536 and 537**

No. **536**—Henry Boker's, Imperial Hockey, Extra Extra Quality Welded and Tempered Steel Runners, Straight, Fine Finished, Improved Pattern Black Rust-Proof Steel Top Plates (Right and Left) with Patented Cup Brackets, Sizes 9 to 12 inch.....per pair 2.50

" **537**—Henry Boker's, Imperial Hockey, Extra Extra Quality Welded and Tempered Steel Runners, Straight, Full Nickel-Plated and Polished, Improved Pattern Top Plates (Right and Left) with Patented Cup Brackets, Sizes 9 to 12 inch.....per pair 3.10




**No. 631**

No. **631**—Henry Boker's, Perfect Hockey, Best Quality Welded and Tempered Steel Runners, Straight, with Puck Stopper, Fine Finished, with Blued Improved Tops and Patented Cup Brackets, Sizes 9 to 12 inch.....per pair 1.62

# HOCKEY SKATES




**No. 636**

No. **636**—Henry Boker's, Majestic Hockey, Extra Extra Quality Welded and Tempered Steel Runners, Straight, with Puck Stopper, Fine Finished, with Improved Pattern Black Rust-Proof Steel Top Plates (Right and Left) and Patented Cup Brackets, Sizes 10 to 12 inch.....per pair $3.00




**No. 549**

No. **549**—Henry Boker's, Ice King, Extra Extra Quality Welded and Tempered Steel Runners, Straight, Concaved, Full Nickel-Plated and Polished, with Improved Pattern Top Plates (Right and Left) and Patented Cup Brackets, Sizes 10 to 12 inch.....per pair 3.90




**No. 597**

No. **597**—Henry Boker's, Double End Hockey, Extra Extra Quality Welded and Tempered Steel Runners, Straight, Full Nickel-Plated and Polished, with Improved Pattern Top Plates, Sizes 9½ to 12 inch.....per pair 4.50




**No. 566**

No. **566**—Henry Boker's, Special Racer, for Racing and Hockey Players of Light Weight, Extra Extra Quality Welded and Tempered Steel Runners, Light, Straight, Fine Finished, with Improved Pattern, Black Rust-Proof Steel Top Plates (Right and Left) and Patented Cup Brackets, Sizes 10 to 12 inch.....per pair 3.50



Cuts Illustrating Henry Boker's Patented Cup Brackets.

# RACING SKATES




**No. 567VP**

No. **567VP**—Henry Boker's Unrivalled Racer, Extra Extra Quality Welded and Tempered Steel Runners, Very Light, Straight, Bevelled, Full Nickel-Plated and Polished, with Improved Pattern Top Plates, (Right and Left), and Patented Cup Brackets, Sizes 9 to 12 inch ..... per pair $5.50




**No. 117B**

No. **117B**—Henry Boker's Russian Racer, Extra Extra Quality Welded and Tempered Steel Runners, Straight, Bevelled, Full Nickel-Plated and Polished, with Polished Top Plates, Sizes 10½ to 11½ inch ..... per pair 8.30

## BOKER'S TUBE SKATES

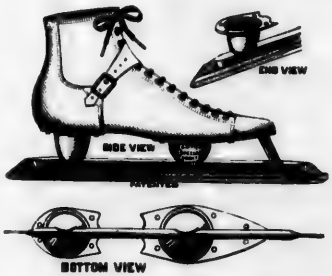



**Nos. 116 and 116B**

No. **116**—**Long**, Henry Boker's Norwegian Racer, Extra Extra Quality Steel Runners, Reinforced Steel Tube Pattern, Aluminum Finish, Sizes 10 to 11½ inch ..... per pair 8.00

No. **116B**—**Long**, Henry Boker's Norwegian Racer, Extra Extra Quality Steel Runners, Reinforced Steel Tube Pattern, Full Nickel-Plated and Full Polished, Sizes 10 to 11½ inch ..... " 11.00

## FISHER'S TUBE SKATES




RACING OR GENERAL PURPOSE SKATE




HOCKEY SKATE

**Regular, Racing or Hockey Skates, Sizes 9 to 12 inch** ..... per pair 9.00
**Shoes** ..... " 4.20

These Skates are made entirely of Steel, Nickel-Plated, in both ladies and gents sizes. The blade of the Regular or Racing Skate, 12 to 17 inches long, $\frac{1}{16}$ to $\frac{1}{14}$ inch thick. Hockey 11 to 14 inches long, $\frac{1}{14}$ inch thick. In ordering skates size should be specified in inches from tip to tip of toe and heel plates. 14 inch blades are recommended for regular use or racing purposes in small rinks.

# SKATES

## THE STARR MANUFACTURING CO.'S



GENUINE ACME CLUB

| | | |
|---|---|---|
| No. 0—Made throughout of Steel, but not so highly finished as the better grades, Sizes 7 to 12 inch | per pair | $0.75 |
| " 3—Nickel-Plated, same quality and finish as No. 0, Sizes 7½ to 12 inch | " | 1.35 |
| " 7—Blades of Extra Quality Welded Steel, Tempered, Tops of Extra Quality Crucible Steel, Oxidized. Blades and Edges of Tops are Finely Finished, Sizes 8 to 12 inch | per pair | 3.80 |
| " 10—Full Nickel-Plated on Copper, Identical with No. 7, Runners and Edges of Tops Burnished, Sizes 8 to 12 inch | per pair | 5.10 |



STARR HOCKEY SKATE

| | | |
|---|---|---|
| No. 5—Blades of Best Cast Steel, Highly Finished Tops, Carbonized Steel, Oxidized. Sizes 9 to 12 in. | per pair | 1.70 |
| " 7—Blades of Extra Quality Welded Steel, Tempered, Tops of Extra Quality Crucible Steel, Oxidized, Blades and Edges of Tops are Finely Finished, Sizes 9 to 12 inch | per pair | 3.00 |
| " 10—Full Nickel-Plated on Copper, Identical with No. 7, Runners and Edges of Tops Burnished, Sizes 9 to 12 inch | per pair | 4.40 |

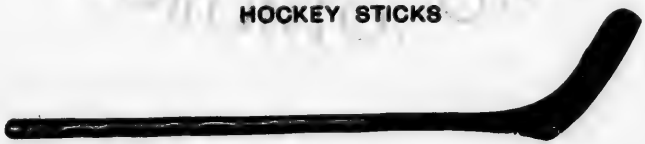
## EXTRA PARTS FOR SPRING SKATES

| | | |
|---|---|---|
| Lugs | per doz | 0.40 |
| Screws | " | 0.24 |
| Nuts | " | 0.24 |
| Wrenches | " | 0.32 |
| Links | " | 0.96 |
| Levers | " | 1.92 |
| Heel Buttons | " | 0.48 |

## SKATE STRAPS

| | | |
|---|---|---|
| Russett, Extra, 21 x ⅞ inch | per gross | 15.75 |
| " " 36 x ⅞ " | " | 30.00 |
| " No. 1, 21 x ⅞ " | " | 13.25 |
| Black, Extra, 21 x ⅞ " | " | 18.00 |

## HOCKEY STICKS



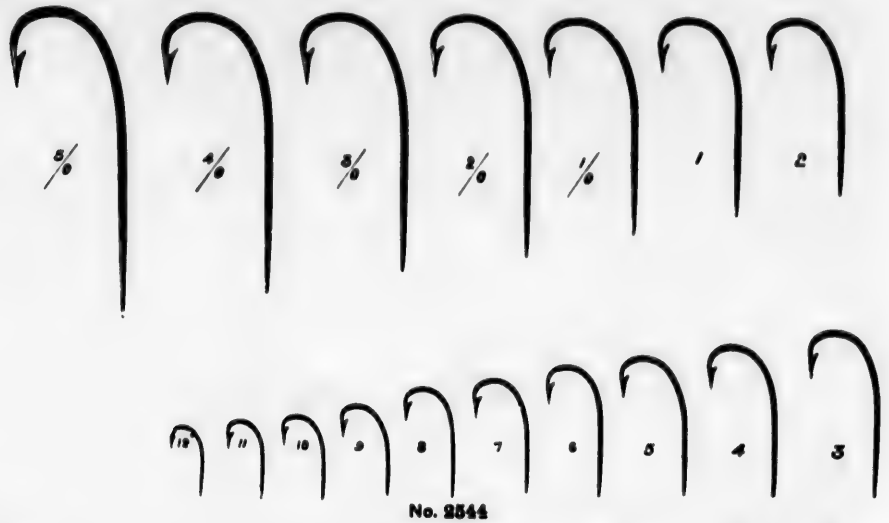
| | | |
|---|---|---|
| No. XXX—Rock Elm, Plain Finish | per doz. | 5.30 |
| " XXX— " Oiled | " | 6.00 |
| " XX— " Plain Finish | " | 3.70 |
| " XX— " Oiled | " | 4.50 |
| " X—Boy's, Plain Finish | " | 2.90 |
| " X— " " Oiled | " | 3.60 |
| " O— " " Plain | " | 2.35 |

## HOCKEY PUCKS

| | | |
|---|---|---|
| Regulation Size, Diameter 3 inches, Thickness 1 inch, Weight ¼ lb. | per doz. | 4.50 |

# FISH HOOKS

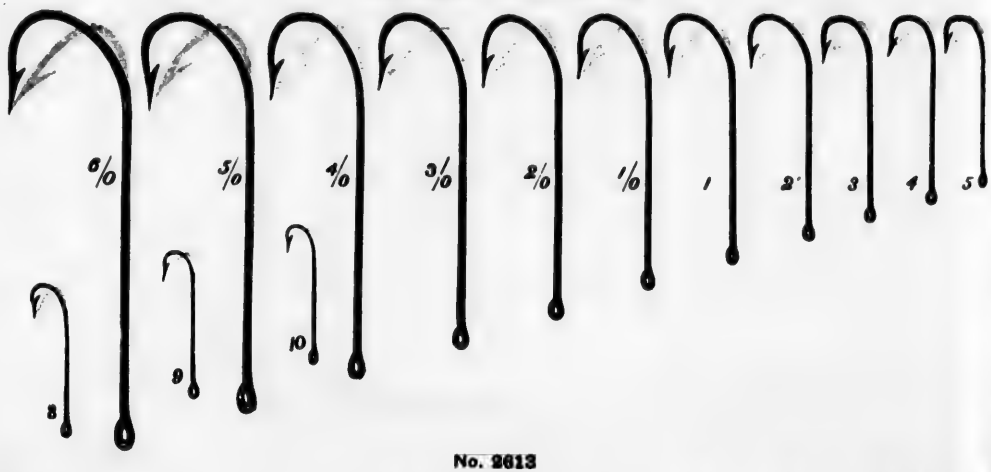
## SPROAT TAPERED HOOKS




No. 2544

| Size Nos. | 12 to 1 | 1-0 | 2-0 | 3-0 |
|---|---|---|---|---|
| No. 2544 ..... per 1,000 | $1.15 | 1.45 | 1.65 | 1.90 |

## CARLISLE FISH HOOKS




No. 2613

| Size Nos. | 12 to 1 | 1-0 | 2-0 | 3-0 | 4-0 | 5-0 | 6-0 |
|---|---|---|---|---|---|---|---|
| No. 2613—Ringed ..... per 1,000 | $1.00 | 1.25 | 1.45 | 1.70 | 1.95 | 2.15 | 2.25 |
| " 2614½—Marked ..... " | 1.00 | 1.25 | 1.45 | 1.70 | .... | .... | .... |

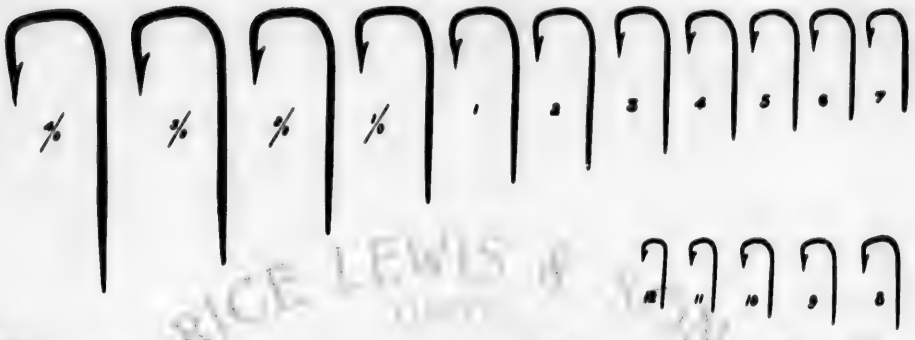
## KIRBY AND LIMERICK FISH HOOKS, RINGED

| Size Nos. | 12 to 1 | 1-0 | 2-0 | 3-0 | 4-0 | 5-0 | 6-0 | 7-0 | 8-0 | 9-0 | 10-0 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| No. 1938—Kirby Bend ... per 1,000 | $0.63 | 0.80 | 1.00 | 1.15 | 1.30 | 1.50 | 1.90 | 2.45 | 3.20 | 4.15 | 5.00 |
| " 1937—Limerick ..... " | 0.63 | 0.80 | 1.00 | 1.15 | 1.30 | 1.50 | 1.90 | .... | .... | .... | .... |

One hundred in a box.

# SNELLED FISH HOOKS

## SNECK HOOKS




| Size Nos. | 6 to 2 | 1 | 1-0 | 2-0 | 3-0 | 4-0 |
|---|---|---|---|---|---|---|
| No. 375—Single Gut ..... per gross | $1.70 | 1.70 | 2.20 | 2.50 | 3.00 | .... |
| " 376—Double Gut ..... " | .... | 2.95 | 3.40 | 3.85 | 4.35 | 4.85 |

## LIMERICK HOOKS

| Size Nos. | 6 to 2 | 1 | 1-0 | 2-0 | 3-0 | 4-0 |
|---|---|---|---|---|---|---|
| No. 377—Single Gut..... per gross | $1.70 | 1.70 | 2.20 | 2.50 | 3.00 | .... |
| " 378—Double Gut ..... " | .... | 2.95 | 3.40 | 3.85 | 4.35 | 4.85 |

## CARLISLE HOOKS

| Size Nos. | 10 to 2 | 1 | 1-0 | 2-0 | 3-0 | 4-0 | 5-0 | 6-0 |
|---|---|---|---|---|---|---|---|---|
| No. 379—Single Gut..... per gross | $1.70 | 1.70 | 2.20 | 2.50 | 3.00 | .... | .... | .... |
| " 380—Double Gut ..... " | 2.95 | 2.95 | 3.40 | 3.85 | 4.35 | 4.85 | 5.40 | 6.25 |

## ABERDEEN HOOKS

| Size Nos. | 10 to 1 | 1-0 | 2-0 | 3-0 | 4-0 | 5-0 | 6-0 |
|---|---|---|---|---|---|---|---|
| No. 381—Single Gut..... per gross | $1.70 | 2.20 | 2.50 | 3.00 | .... | .... | .... |
| " 382—Double Gut..... " | .... | 3.40 | 3.85 | 4.35 | 4.85 | 5.40 | 6.25 |

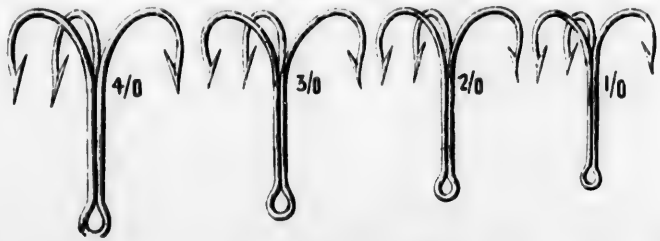
## SPROAT HOOKS

| Size Nos. | 10 to 2 | 1 | 1-0 | 2-0 | 3-0 |
|---|---|---|---|---|---|
| No. 383—Single Gut..... per gross | $1.70 | 1.70 | 2.20 | .... | .... |
| " 384—Double Gut ..... " | .... | 2.95 | 3.40 | 3.85 | 4.35 |

## LIMERICK HOOKS, ON GIMP

| Size Nos. | 1-0 | 2-0 | 3-0 | 4-0 | 5-0 | 6-0 |
|---|---|---|---|---|---|---|
| No. 385..... per gross | $4.75 | 5.05 | 5.35 | 5.65 | 5.95 | 6.25 |

## TREBLE HOOKS, RINGED




| Size Nos. | 6 to 1 | 1-0 | 2-0 | 3-0 | 4-0 | 5-0 | 6-0 | 7-0 |
|---|---|---|---|---|---|---|---|---|
| No. 386—Bright..... per gross | $2.05 | 2.40 | 2.55 | 2.70 | 3.05 | 3.70 | 4.40 | 5.40 |

Quarter gross in a box.

# TROUT FLIES







| | | | |
|---|---|---|---|
| ALDER | WATER CRICKET | BLACK PALMER | BROWN PHEASANT |
| JOCK SCOTT | LALA | GREY DRAKE | PROFESSOR |
| SILVER DOCTOR LIGHT | SILVER DOCTOR DARK | PARMACHENE BELL | ALEXANDRIA |
| CHANTRY | WREN TAIL | QUEEN OF WATERS | SOLDIER PALMER |

Trout Flies on Single Gut.....per doz. $0.35
Midget " " " ..... " 0.80

## BASS FLIES



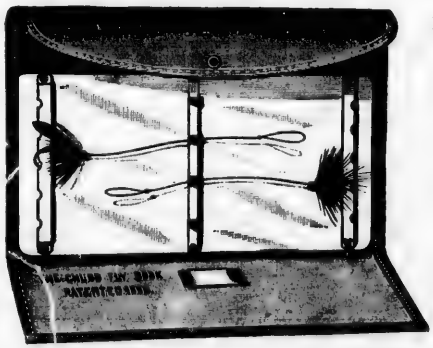




| | | | |
|---|---|---|---|
| BLUE TURKEY | BROWN PHEASANT | GREEN DRAKE | RUBE WOOD |
| GREY PALL | GRIZZLY KING | FURNACE PALMER | ETC., ETC. |

On Single Gut.....per doz. $0.90
On Double Gut..... " 1.10

## FLY BOOKS



Per doz.

No. **1**—Size, 6½x3½, Leather Covers, Cloth Lined, 1 Pocket in Cover, Parchment Leaves, Bound with Leatherine, 2 Paper Pockets, holds 2 dozen Flies $ 7.60

" **2**—Size, 6¾x3½, Leather Covers, Cloth Lined, 1 Pocket in Cover, Parchment Leaves, Bound with Leatherine, 2 Paper Pockets, holds 3 dozen Flies 13.65

" **3**—Size, 7½x3½, Leather Covers, Leather Lined, 2 Pockets in Covers, Parchment Leaves, Bound with Leatherine, 2 Paper Pockets, holds 4 dozen Flies 21.25

" **4**—Size, 7½x4, Leather Covers, Leather Lined, 2 Pockets in Covers, Parchment Leaves, Bound with Leatherine, 2 Paper Pockets, holds 6 dozen Flies 34.20

" **5**—Size, 7½x4, Fine Leather Covers, 1 Pocket, Waterproof Leaves, Fine Flannels for protecting and drying Flies, holds 6 dozen Flies..... 38.00

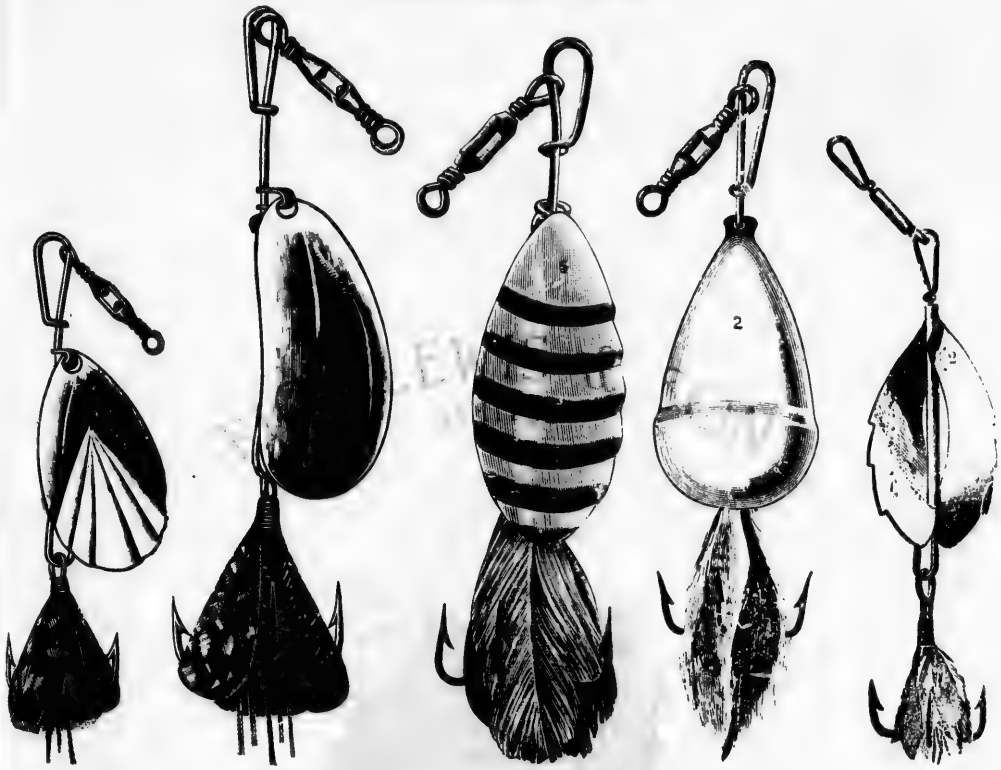
" **6**—Size, 7½x4, Best Morocco Covers, 2 Pockets, Waterproof Leaves, Fine Flannels for protecting and drying Flies, holds 6 dozen Flies..... 53.00

" **9**—Size, 7x3½. This is a Combination Fly and Tackle Book, and is very handy; has Fine Black Leather Covers, with 4 Large Pockets and 3 Small Ones; Parchment Leaves for holding Flies, Bound with Leatherine; holds 2 dozen Flies..... 20.25

No. **12**—Size, 11x3½. This is a Combination Fly and Hook Book, made long enough to hold Snelled Hooks, with the Snells straight; Leather Covers with 2 Snap Locks, Cloth Lined, 1 Large Pocket, has Stiff Leaves, and holds 2 dozen Flies and 4 dozen Snelled Hooks, and all fastened separate..... 30.40

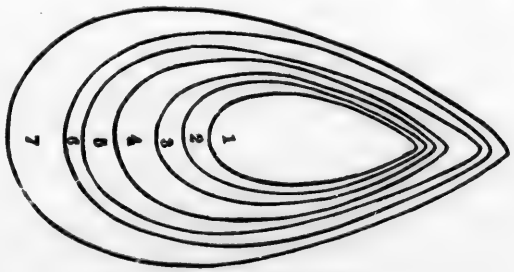
" **13**—Size, 6½x3½. New style and new method of holding Flies, no Springs, yet each Fly held separate; Black Seal Grain Covers; very neat, light, durable Book, designed especially for Anglers who wish to keep their Flies separate from their Snelled Hooks and other Tackle, and do not wish to carry a large Book of Flies while on the stream. Holds 4 dozen Flies..... 16.75

# TROLLING BAITS




FLUTED PICKEREL COBURG DIAMOND C ALLURE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Size Nos | | 4 | 4¾ | 5 | 6 | 7 | 8 |
| Fluted Bait, Nickel-Plated | per doz. | $1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 |
| Size Nos | | | | 4 | 5 | 6 | 7 |
| Pickerel Bait, Nickel-Plated | per doz. | | | $1.05 | 1.05 | 1.05 | 1.05 |
| Size Nos. | | 3 | 4 | 5 | 6 | 7 | 8 |
| Coburg Bait, Nickel-Plated | per doz. | $1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 |
| Size Nos. | | | | 3 | 2 | 1 | ½ |
| Diamond C, Nickel-Plated, Gold End | per doz. | | | $4.00 | 4.00 | 4.00 | 4.70 |
| Size Nos | | | | 3 | 2 | 1 | ½ |
| Allure, Nickel and Brass | per doz. | | | $7.40 | 7.40 | 7.40 | 8.10 |

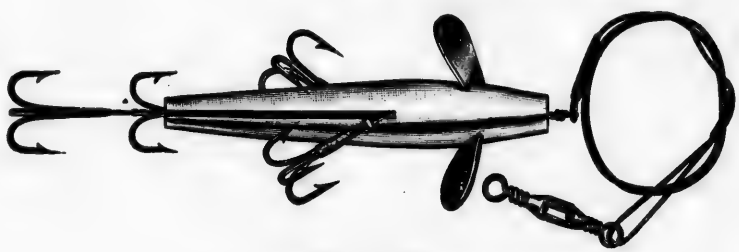



Scale for sizes of Spoons.

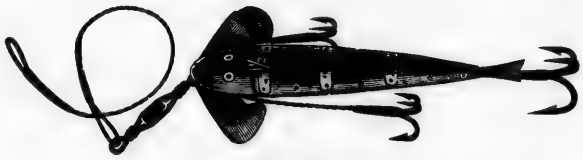
# TROLLING BAITS




FINE MUSKALLONGE



DEVON BAIT



PHANTOM MINNOW




CASTING SPOON

## FINE MUSKALLONGE

| Nos. | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| Nickel Convex, Copper Concave ..... per doz. | $2.65 | 3.30 | 5.30 | 6.60 |

## OVAL HAMMERED

For style see Luminous Ohio Hammered, page 1026.

| Nos | 1 | 2 | 3 | 4 | 6 |
|---|---|---|---|---|---|
| Per dozen | $1.05 | 1.05 | 1.05 | 1.05 | 1.05 |

## DEVON BAITS

| Nos. | 2 | 3 | 5 | 7 | |
|---|---|---|---|---|---|
| Size | 1¼ | 2 | 2¼ | 3 | inch. |
| 1260—English, Assorted Colors, 1st Quality ..... per doz. | $4.90 | 5.40 | 6.00 | 6.60 | |
| Nos. | 1 | 2 | 3 | 4 | |
| Size | 2 | 2¼ | 2¼ | 2¼ | inch. |
| American, Assorted, Nickel and Gilt. ..... per doz. | $4.70 | 4.70 | 4.70 | 4.70 | |

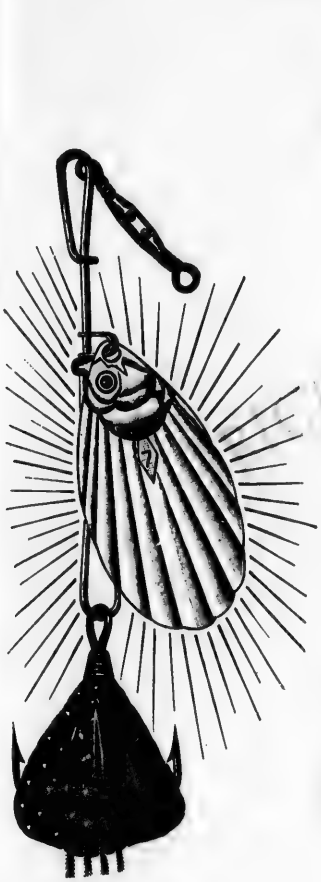
## PHANTOM MINNOWS

| Nos. | 1 | 2 | 3 | 4 | 6 | 8 | |
|---|---|---|---|---|---|---|---|
| Size | 1¼ | 2 | 2¼ | 3 | 4 | 4½ | inch. |
| Assorted Colors ..... per doz. | $6.45 | 6.45 | 6.45 | 6.45 | 7.50 | 10.00 | |

## CASTING SPOONS

| Nos | 15 | 16 |
|---|---|---|
| Sprout Hooks with Double Gut Loop ..... per doz. | $0.90 | 1.30 |

# LUMINOUS TROLLING BAITS



SUCCESS



CRESCENT, No. 4



CRESCENT, No. 2

## SUCCESS

| Nos | 1 | 3 | 5 | 7 | 9 | 11 | 12 |
|---|---|---|---|---|---|---|---|
| Per dozen | $3.50 | 3.50 | 4.25 | 4.25 | 5.30 | 6.35 | 6.35 |

## CRESCENT

| Nos | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Per dozen | $4.65 | 4.65 | 4.65 | 6.60 | 6.60 | 6.60 |

## FINE MUSKALLONGE

For Style, see Fine Muskallonge, page 1024.

| Nos | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| Per dozen | $3.30 | 4.25 | 6.60 | 8.70 |

## NEW AKRON

| Nos | 1 | 2 |
|---|---|---|
| Per dozen | $4.35 | 5.20 |

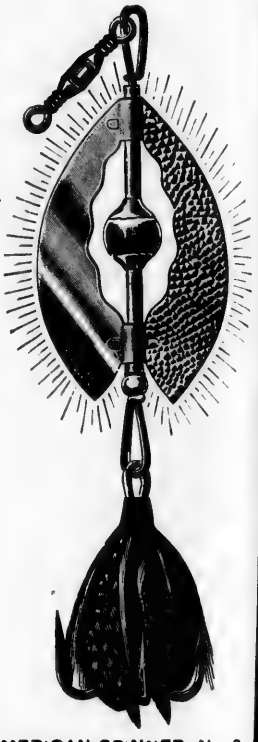
# LUMINOUS TROLLING BAITS




HOLT'S MUSKALLONGE



OHIO HAMMERED



AMERICAN SPINNER, No. 3

## HOLT'S MUSKALLONGE

| | | | | | |
|---|---|---|---|---|---|
| Nos. | | | 6 | 7 | 8 |
| Plain or Hammered | per doz. | | $5.30 | 6.20 | 7.00 |

## OHIO HAMMERED

| | | | | | |
|---|---|---|---|---|---|
| Nos. | 1 | 3 | 4 | 6 | 8 |
| Per dozen | $3.20 | 3.70 | 3.70 | 4 20 | 5.30 |

## AMERICAN SPINNER

| | | | | | |
|---|---|---|---|---|---|
| Nos. | 1 | 3 | 4 | 5 | 8 |
| Per dozen | $3.10 | 3.10 | 3.10 | 3.10 | 3.10 |

# LUMINOUS TROLLING BAITS



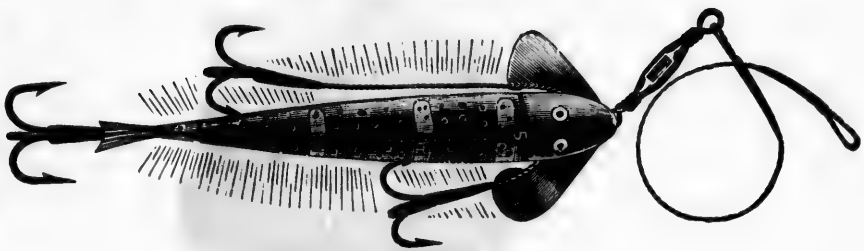
GOVERNOR




IRVIN, No. 6




IRVIN, No. 1



PHANTOM MINNOW

## GOVERNOR

| | | | |
|---|---|---|---|
| Nos. | 7 | 8 | 9 |
| Per dozen | $8.45 | 9.50 | 10.50 |

## IRVIN

| | | | | | | |
|---|---|---|---|---|---|---|
| Nos | 1 | 2 | 3 | 4 | 5 | 6 |
| Per dozen | $3.20 | 3.20 | 3.20 | 3.70 | 3.70 | 3.70 |

## PHANTOM MINNOWS

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Nos. | 0 | 1 | 1½ | 2 | 3 | 5 | 8 |
| Per dozen | $9.70 | 9.70 | 9.70 | 9.70 | 9.70 | 10.50 | 12.90 |

## LUMINOUS TROUT SPINNERS



No. 9

| | | | |
|---|---|---|---|
| Nos. | 9 | 2 | 206 |
| Per dozen | $2.35 | 4.75 | 2.95 |

# FURNISHED FISH LINES



No. **4**—Composed of 1¾ inch Float, 15 feet Drab Cotton Line, Ringed Hook, Sinker, Wood Winder, per doz. $0.55

## FISH LINES

### DRAB COTTON
15 feet Hanks, Connected.

| Nos. | 2 | 3 | 4 | 5 |
|---|---|---|---|---|
| Per gross | $1.10 | 1.25 | 1.40 | 1.65 |

### ECRU COTTON
25 feet Blocks, 4 Connected.

| Nos. | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| Per dozen | $0.50 | 0.54 | 0.57 | 0.60 | 0.63 |

### ECRU COTTON
50 feet Blocks, 4 Connected.

| Nos | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| Per dozen | $0.75 | 0.80 | 0.85 | 0.90 |

### SEA ISLAND WATERPROOF COTTON
50 feet Coils, 2 Connected.

| Nos. | 63 | 65 |
|---|---|---|
| Per dozen | $0.80 | 1.00 |

### BRAIDED COTTON
84 feet Hanks, 2 Connected.

| Nos. | 6 | 5 | 4 | 3 | 1 | 0 | 00 |
|---|---|---|---|---|---|---|---|
| Per dozen | $1.25 | 1.25 | 1.25 | 1.25 | 1.50 | 1.65 | 1.95 |

### LINEN LAID
50 feet Coils, 3 Connected.

| Nos. | 6-35 | 12-35 | 15-35 |
|---|---|---|---|
| Per dozen | $1.50 | 2.15 | 2.50 |

### BRAIDED LINEN
25 yard Blocks, 4 Connected.

| Nos | 5 | 4 | 3 |
|---|---|---|---|
| Per 100 yards | $0.70 | 0.70 | 0.70 |

### FINISHED SILK, No. 105
25 yard Blocks, 4 Connected.

| Nos | 5 | 3 |
|---|---|---|
| Per 100 yards | $1.30 | 2.15 |

### BRAIDED SILK, "HERCULES"
25 yards, 4 Connected.

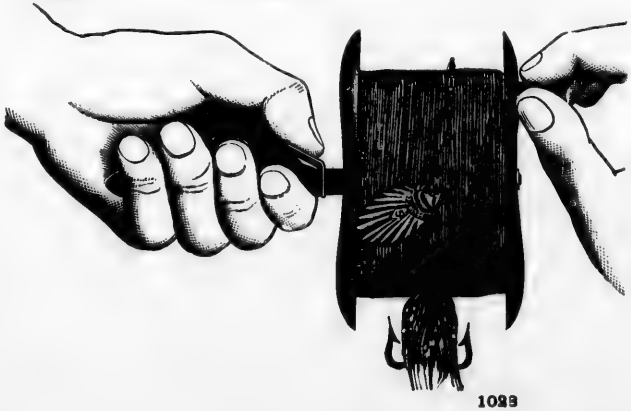
| Nos | 5 | 4 | 3 |
|---|---|---|---|
| Per 100 yards | $1.95 | 2.25 | 2.60 |

### ENAMELLED SILK (ENGLISH)
25 yards, 4 Connected.

| Nos | 6 | 4 | 2 |
|---|---|---|---|
| Per 100 yards | $3.25 | 4.40 | 5.30 |

## GUT CASTING LEADERS

| Length | | 1 | 2 | 3 yards. |
|---|---|---|---|---|
| No. **058**—Single Gut, Common | per doz. | $0.32 | 0.65 | 1.00 |
| " **258**— " Best | " | 0.80 | 1.60 | 2.40 |
| " **468**—Double Gut, Medium Quality | " | 1.30 | 2.60 | 3.90 |
| " **568**— " Very Strong | " | 2.60 | 5.20 | 7.80 |

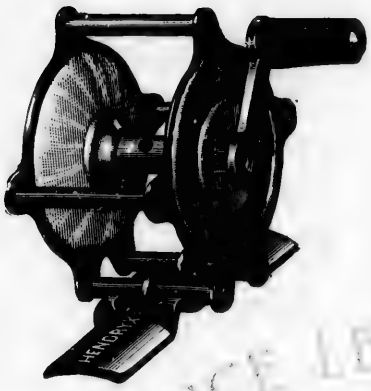


## WOOD TROLLING LINE REELS

No. **2**—Medium Size, with Patent Brake, Assorted Colors, Reels only ..... per doz. $1.40

No. **3**—Large Size, with Patent Brake, Assorted Colors, Reels only ..... per doz. 1.65

# FISHING REELS



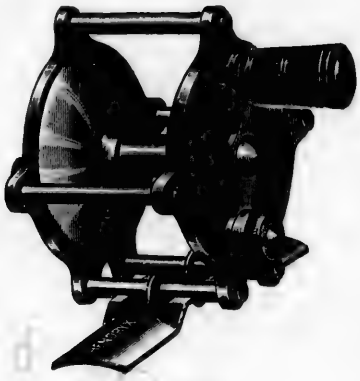
No. 102S

Single Action, Raised Pillar, Riveted Brass Reel.

| Nos. | 102P | 106P |
|---|---|---|
| Capacity | 25 | 60 yards. |
| Per dozen | $1.70 | 2.25 |

Single Action, Raised Pillar, Riveted Brass Reel, with Click, Nickel-Plated.

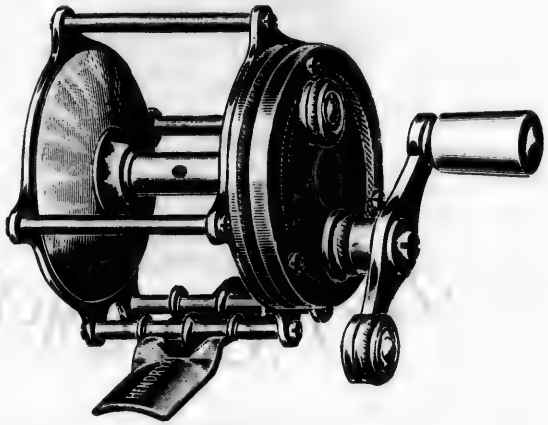
| Nos. | 204PN | 206PN |
|---|---|---|
| Capacity | 40 | 60 yards. |
| Per dozen | $3.40 | 3.70 |



No. 00304

Single Action, Raised Pillar, Screwed Brass Reel, with Flush Balance Handle and Back Sliding Click, Nickel-Plated.

| Nos | 00304PN | 00306PN | 00307PN |
|---|---|---|---|
| Capacity | 40 | 60 | 80 yards. |
| Per dozen | $6.85 | 7.45 | 8.00 |



No. 987PN

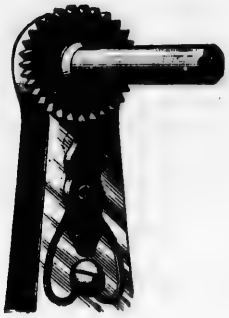
Double Multiplying, Raised Pillar, Balance Handle, Screwed Brass Reel, with Fine Steel Pivots and Brass Bushed Bearings, Patent Adjustable Slide Drag, Back Sliding Click.

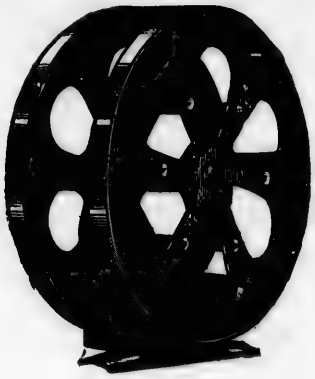
| | | | |
|---|---|---|---|
| No. 986PN—60 yards, Nickel-Plated | per doz. | $21.00 |
| " 987PN—80 " " | " | 24.30 |
| " 988PN-100 " " | " | 27.85 |

Double Multiplying, Raised Pillar, Balance Handle, Screwed Brass Reel, with Patent Adjustable Slide Drag, and Back Sliding Click.

| | | | |
|---|---|---|---|
| No. 2904PN—40 yards, Nickel-Plated | per doz. | $ 9.60 |
| " 2906PN—60 " " | " | 10.50 |
| " 2907PN—80 " " | " | 11.40 |
| " 002904PN—40 " " with Rubber Cap | " | 12.00 |
| " 002906PN—60 " " " " | " | 13.00 |
| " 002907PN—80 " " " " | " | 14.00 |
| " 002908PN-100 " " " " | " | 15.50 |

# FISHING REELS





### EXPERT

With Back Sliding Click and Patent Guard Band, which also forms Stop and Drag, made of Best Spring Steel and operated with the thumb by pressure, the best all round Reel in the market.

No. **19**— 40 yards, Nickel-Plated.....per doz. $29.15
" **17**—100 " " ..... " 31.60

### AMATEUR

Same style as Expert, but without the Spring Band.

No. **12**—40 yards, Nickel-Plated.....per doz. 21.85

### FEATHER LIGHT

Removable Spool, Back Sliding Steel Click, Steel Spindle, Lightest Reel made.

No. **260**—40 yards, Nickel-Plated.....per doz. 21.85
" **270**—60 " " ..... " 25.50

## MARTIN'S STANDARD AUTOMATIC REELS

This Reel is automatic. Main Spring can be wound or unwound without touching line by turning Main Spring Drum, thereby rendering any tension desired on long or short line. The Endless Spring making it both desirable and durable. Has capability of Main Spring, being readily and easily adjusted to greater or less tension at any time during the operation of landing a fish.

No. **1**—**Creek Whipper** Line Spool is 2⅜ inches in diameter, with ⅜ Hub and $\frac{5}{16}$ wide, will hold 25 yards of Medium Line, each..... $7.00

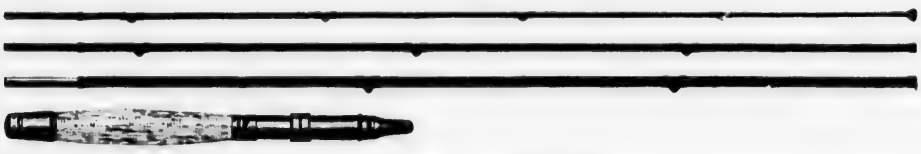
" **2**—**Fly Casting**, has the same diameter of Line Spool and Hub, but is ⅝ wide, having a capacity for 25 yards of Casting-Line.....each 7.00

" **3**—**Bass Reel.** Line Spool is 2⅜ inches in diameter, Hub ⅜, and width ⅝ inches will hold 50 yards. For "Bass" this is the "real" thing.....each 8.00

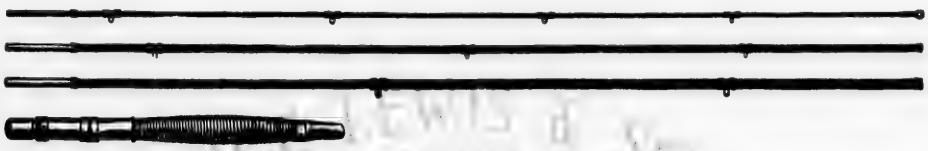
" **4**—**Salmon Reel.** Has a Line Spool 2⅜ inches in diameter, Hub ⅜ inch in diameter, and the width is 1⅛ giving space for 50 yards of Large Line. Automatic for 100 feet....each 9.00



# FISHING RODS



STEEL BAIT ROD, CORK GRIP



STEEL FLY ROD, CELLULOID GRIP

## STEEL RODS

| | | | |
|---|---|---|---|
| No. | **4** —Bass Rod, 10 feet in Length, Nickel Mountings, Cork Grip | each | $ 8.50 |
| " | **4A**— " 10 " " " " Celluloid Grip | " | 7.70 |
| " | **4B**— " 10 " " " " Reversible Cork Grip | " | 9.65 |
| " | **4C**— " 10 " " " " Reversible Celluloid Grip | " | 8.85 |
| " | **8** —Fly Rod, 10 " " " " Cork Grip | " | 8.50 |
| " | **8A**— " 10 " " " " Celluloid Grip | " | 7.70 |
| " | **8B**— " 10 " " " " Reversible Celluloid Grip | " | 8.85 |
| " | **8C**— " 10 " " " " Reversible Cork Grip | " | 9.65 |
| " | **16** — " 9 " " " " Celluloid Grip | " | 7.70 |
| " | **16A**— " 9 " " " " Cork Grip | " | 8.50 |
| " | **17** —Bait Casting Rod, 7 feet in Length, Nickel Mountings, Cork or Cane Wound Grip | " | 10.00 |

## SPLIT BAMBOO RODS

| | | | |
|---|---|---|---|
| No. | **25** —Chubb's, 6 Strip, German Silver Trimmings, 10½ ounces | each | 25.25 |
| " | **25N**— " 6 " Nickel-Plated " 10½ " | " | 21.35 |
| " | **25A**— " 8 " German Silver " 10½ " | " | 29.10 |
| " | **A12**—Fly Rod, Best Quality, 6 Strip, Cedar, Inlaid Swelled Butt, German Silver Mountings, Cork Grasp, Silk Wrappings, Welt Ferrules, 3 Joints, Extra Tip, 9½ to 10 ft | each | 7.60 |
| " | **A15**—Bait Rod, otherwise same as A12, 9½ to 10 ft | " | 7.60 |
| " | **D12**—Fly Rod, 6 Strip Rod, Nickel Mountings, Solid Reel Seat, Cork Grip, 9½ to 10 ft | " | 4.65 |
| " | **D15**—Bait Rod, 6 " " " " " " " " " " | " | 4.65 |
| " | **N12**—Fly Rod, 6 " " " " " " " " " " | " | 2.75 |
| " | **N15**—Bait Rod, 6 " " " " " " " " " " | " | 2.75 |
| " | **12**—Fly Rod, 6 " " " " " " " " " " | " | 1.75 |
| " | **15**—Bait Rod, 6 " " " " " " " " " " | " | 1.75 |

## GREENHEART RODS

| | | Each |
|---|---|---|
| No. | **36½**—Fly Rod, Solid Reel Seat, Improved Shouldered Ferrules, Silk Wrappings, Scored Wood Grip, 10 ft. | 3.50 |
| " | **46½**—Bait Rod, " " " " " " " " 10 ft. | 3.50 |

## LANCEWOOD RODS

| | | |
|---|---|---|
| No. | **X35**—Fly Rod, Full Nickel Mounted, Raised Ferrules, Silk Whippings, Scored Grip, 10 ft | each 2.05 |
| " | **X95**—Bait Rod, " " " " " " " " 10 ft | " 2.05 |
| " | **495**—Combination Rod, 3-Joint Heavy Bait Rod, 10½ feet, weight 15 ounces, or a 2-Joint Trolling Rod, 7 feet, weight 13 ounces, Full Nickel Mountings, Solid Reel Seat, Silk Wound Tee Guides, Celluloid Grip above and below Reel Seat | each 4.05 |

# FISHING RODS

## TRUNK RODS

| | | | |
|---|---|---|---|
| No. **610** | —6 pieces, Ash Butt, Lancewood Tip, Fine Finished Guides and Reel Bands | per doz. | $18.25 |

## FOUR-JOINT BAIT RODS

| | | | |
|---|---|---|---|
| No. **421½** | —Fine Polished Brass Mountings, Hollow Butt, Lancewood Tip and Short Tip, 11 ft | per doz. | 19.70 |
| " **420N** | —Nickel Mountings, Light Color Finish, Scored Wood Butt, 11 ft | " | 18.90 |
| " **419** | —Brass Mountings, Dark Color, Reel Band and Butt Cap, 11 ft | " | 10.80 |

## THREE-JOINT BAIT RODS

| | | | |
|---|---|---|---|
| No. **329½** | —Brass Mountings, Dark Color, Ironwood Tip, Rings, Reel Bands, Hollow Butt, 10½ ft | per doz. | 16.85 |
| " **329** | — " " " " " and Butt Cap, 10½ ft | " | 13.50 |
| " **320HB** | — " " Lancewood Tip " " Hollow Butt, 9 to 10 ft. | " | 14.85 |
| " **318F** | — " Light Color " " " Butt Cap, 9 to 10 ft | " | 10.80 |
| " **318** | — " Dark Color " " " " " | " | 8.10 |
| " **3/0** | — " " Rings and Reel Bands | " | 4.20 |
| " **1** | — " Single Ferrules, Light Color | " | 2.00 |

## JOINTED BAMBOO RODS

| | | | |
|---|---|---|---|
| No. **X5**—4 Joint | Double Ferrules, Band Guides, Reel Bands, 14 ft | per doz. | 12.80 |
| " **X30**—3 " | " " " " 10½ ft | " | 8.75 |
| " **73**—3 " | " Rings and Reel Bands and Butt Cap, 12 to 14 ft | " | 9.45 |
| " **71**—3 " | " Rings and Butt Cap, 12 to 14 ft | " | 5.40 |
| " **70**—2 " | with Rings, 9 to 10 ft | " | 2.70 |

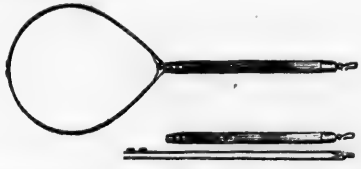
## BAMBOO RODS, FULL LENGTHS

| Length | **12** | **14** | **16** | **18** | **20** | feet. |
|---|---|---|---|---|---|---|
| Per 100 | $6.00 | 7.00 | 9.00 | 10.00 | 12.00 | |

12, 14 and 16 feet in bundles of 100; 18 and 20 feet, 50.

## LANDING NETS AND RINGS



| | | | |
|---|---|---|---|
| No. **3** | —"Kosmic or Harrimac" Folding Ring, Jointed Bamboo Handle, 4 feet long, complete, with Net | per doz. | $40.00 |
| " **I.D.L** | —Trout Landing Net, Bamboo Handle, 12 inches long, weight 4 ounces, complete with Net | " | 21.40 |
| " **20** | —Wood Bow Landing Net, Ring, with Screw Handle, complete with Net | " | 19.00 |
| " **1521M** | —Folding Rings, four Joints, Bronzed, 15 inch diameter | " | 7.50 |
| " **1500** | —Circular Rings, Japanned, 16 inch diameter | " | 3.60 |
| " **300** | —Brass Sockets for Landing Net Handles | " | 3.00 |

## NETS

| Size | | | **18** | **20** | **24** | inch. |
|---|---|---|---|---|---|---|
| No. **301** | —Waterproof, Square Bottom | per doz. | $.... | 7.60 | 8.85 | |
| " **302** | —Linen, Pointed Bottom | " | .... | .... | 3.40 | |
| " **303** | —Cotton " Minnow Dip | " | .... | 6.40 | 7.50 | |
| " **1498M** | —Brown Hemp, Round Bottom, Waterproof | " | 3.00 | 4.00 | .... | |

# CORK FLOATS



2 inch, Egg Shape.

**EGG SHAPE**

| Size | 1½ | 1¾ | 2 | 2¼ | 2½ inch. |
|---|---|---|---|---|---|
| Not Bound....per doz. | $0.50 | 0.60 | 0.80 | .... | 1.30 |
| Bound..... " | 0.70 | 0.80 | 0.95 | 1.25 | 1.55 |

**BARREL SHAPE**

| Size | 2 | 2½ | 3 | 3½ inch. |
|---|---|---|---|---|
| Not Bound.....per doz. | $0.55 | 0.75 | 1.10 | 1.50 |
| Bound..... " | 0.65 | 0.85 | 1.20 | 1.70 |

## SWIVELS

**HOOK AND SPRING SWIVELS**

**BRASS BOX SWIVELS**



2540 2538 2539 3/0 2/0 1/0 1 2 3 4 5 6 7 8 9 10

### BRASS BOX SWIVELS

| Size Nos. | 10 to 1 | 1-0 | 2-0 | 3-0 |
|---|---|---|---|---|
| No. **2536**.....per gross | $2.40 | 3.80 | 5.00 | 6.25 |

### HOOK AND SPRING SWIVELS

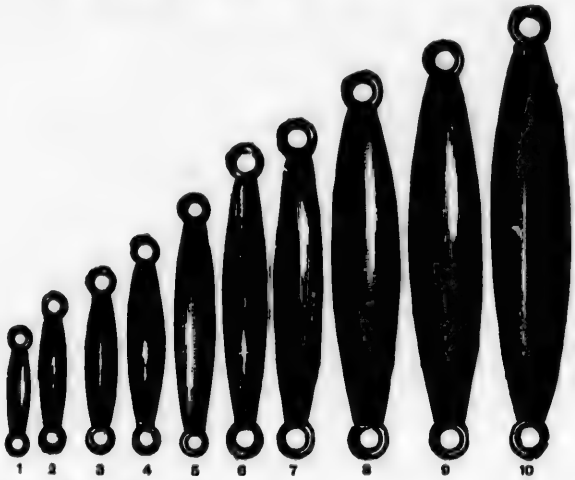
| Size Nos. | 8 | 6 | 4 | 2 |
|---|---|---|---|---|
| No. **2539**—Spring, Brass or Blued Steel.....per gross | $4.50 | 4.50 | 4.50 | 4.50 |
| " **2538**—Buckle, " " " ..... " | 5.25 | 5.25 | 5.25 | 5.25 |
| " **2540**—Hook, " " " ..... " | 3.75 | 3.75 | 3.75 | 3.75 |

### ROD FERRULES

Brass with Counter.

| Inside Diameter | 5/16 | ¼ | 5/16 | ⅜ | 7/16 | ½ | 9/16 | ⅝ | 11/16 | ¾ inch. |
|---|---|---|---|---|---|---|---|---|---|---|
| No. **609M**.....per doz. | $0.75 | 0.87 | 0.95 | 1.10 | 1.15 | 1.25 | 1.40 | 1.50 | 1.65 | 1.75 |

# RINGED LEAD SINKERS




| Nos. | 13 | 12 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Per gross | $6.70 | 5.75 | 3.45 | 2.90 | 2.10 | 1.50 | 1.15 | 0.93 | 0.77 | 0.77 | 0.77 | 0.77 |

## ADJUSTABLE LEAD SINKERS

| Nos. | 10 | 9 | 8 | 6 | 4 | 2 |
|---|---|---|---|---|---|---|
| Per gross | $5.75 | 4.80 | 4.40 | 2.65 | 1.90 | 1.45 |

## SPLIT SHOT

In Wood Boxes ..... per gross boxes $4.00



## FISH BASKETS

| | | |
|---|---|---|
| No. 1—Hand-made, Willow, holds 10 pounds | each | 1.20 |
| " 2— " " " 15 " | " | 1.40 |
| " 3— " " " 25 " | " | 1.50 |
| Fish Basket Straps, either Web or all Leather | " | 0.30 |

## CLEARING RINGS

No. 1—Polished Brass, Jointed, a good Heavy Ring ..... per doz. 11.00

## DISGORGERS



No. 1



No. 2

| | | |
|---|---|---|
| No. 1—Brass, Nickel-Plated, with Double End | per doz. | 8.15 |
| " 2—Malleable Iron, Nickel-Plated, with Single End | " | 4.05 |

# BASEBALLS




| | | | |
|---|---|---|---|
| No. 1 | "The Spalding" Official League Ball | per doz. | $20.60 |
| " 0 | "Double Seamed Ball," Double Stitched, warranted to last a full game | " | 20.60 |
| " 20 | Regulation Size and Weight, a first-class Ball | " | 10.80 |
| " 30 | " " Horsehide Cover | " | 8.10 |
| " 40 | " " " " and well made | " | 5.40 |
| " 50 | " " " " | " | 2.70 |
| " 60 | " " good Boys' Ball | " | 1.65 |
| " 70 | "Rattler," Boys' Ball | " | 1.05 |
| " 80 | "Boss," " " | " | 0.60 |

## BASEBALL BATS



No. 3A



LOUISVILLE SLUGGER

| | | | |
|---|---|---|---|
| Louisville Slugger, | Best Selected Ash, well Balanced and Finished | per doz. | 14.00 |
| No. 3/O | —Highest Grade Ash, thoroughly Seasoned, well Balanced and Finished | " | 12.85 |
| " 1A | —Extra Quality Ash, Antique Finish, Highly Polished | " | 7.00 |
| " 1C | —Finest Selected English Willow, Highly Finished | " | 7.00 |
| " 2A | —Excellent quality Ash, Carefully Selected, Highly Polished | " | 3.85 |
| " 3A | —Extra " " Antique Finish, Best Boys' Bat made | " | 3.85 |
| " 7 | —Ash, Highly Polished, Red End, Length 30 inch | " | 1.50 |
| " 9 | — " " " " 26 " | " | 0.80 |

# BASEBALL MITTS



No. 99



No. 92

| | | | |
|---|---|---|---|
| No. **99**—Professional Catchers' Mitts, with Patent Rubber Finger Guard, Padded with Best Asbestos Padding, Patent Lacing, Best Coltskin | each | $8.00 |
| " **98**—Same as No. 99, but a little smaller | " | 6.00 |
| " **91**— " " 98, but made of Asbestos Calfskin | " | 5.35 |
| " **100**— " " 98, with Reinforced Patch in Palm, without the Patent Finger Protector | " | 2.70 |
| " **92**—Mouse Color Colt Skin, with Patent Lacing | " | 2.00 |
| " **93**— " " without Lacing | " | 1.60 |
| " **80**—Gold Tan Leather Back, "Youths' Large Size" | " | 0.70 |
| " **101**— " Canvas " "Boys' " | " | 0.40 |

## BASEMAN AND INFIELDER'S MITTS AND GLOVES




No. 45



No. 32X

| | | |
|---|---|---|
| No. **45** —Mitts, Drab Colored Coltskin, very flexible | each | 2.70 |
| " **43** — " " " Palm, Red Leather Back | " | 2.00 |
| " **42** — " Craven Tanned Leather | " | 1.00 |
| " **41** — " Yellow Leather | " | 0.80 |
| " **32X**—Gloves, Mouse Colored Buckskin, Padded Palm | " | 4.00 |
| " **7X**— " Drab Colored Coltskin " | " | 2.70 |
| " **29** — " " " " | " | 1.60 |
| " **3X**— " Drab Chrome Tanned Leather | " | 1.00 |

## INFLATED BODY PROTECTOR

| | | |
|---|---|---|
| No. **1** —League Catchers' Protector | each | 15.15 |
| " **1A**—Amateur " " | " | 9.50 |
| " **1B**—Boys' " " | " | 8.20 |

## TOE PLATES

| | | |
|---|---|---|
| No. **1**—Tempered Steel, Hand Forged, High Grade | per doz. pair | 7.30 |
| " **2**— " " | " | 3.65 |

## HEEL PLATES

| | | |
|---|---|---|
| No. **3**—Tempered Steel | per doz. pair | 3.05 |

# BASEBALL MASKS





| | | Each |
|---|---|---|
| No. 0 | —Black Enameled, with Patent Neck Protector, made of the Best Soft Annealed Steel Wire, Padded with Goat Hair, Faced with Dogskin, which always remains soft and pleasant to the face | $4.90 |
| " 1 | —Black Enameled, Special Association Mask, same material as No. 0, but without the Neck Protector. | 3.65 |
| " 2 | —Bright Finish, Heavy Soft Annealed Steel Wire, Well Padded and Faced with Horsehide, a good reliable Mask | 3.05 |
| " XX | —Amateur Men's Mask, made of Heavy Wire, Well Padded and Finished in the best manner | 2.20 |
| " X | —Amateur Boys' Mask, made in same style and quality as No. XX, only smaller in size | 1.55 |
| " C | —Youths' Mask, Heavy Wire and Well Padded, without Head or Chin Piece | 0.95 |
| " D | —Youths' Mask, Light Wire and Padded, without Head or Chin Piece | 0.65 |
| " E | —Boys' Mask, Light Wire, without Head or Chin Piece | 0.35 |

## LACROSSE STICKS



**Nos. 4 to 7**

| | | | |
|---|---|---|---|
| No. 1 | —3 feet 10 inches in length, Best White Hickory and Finest Line Strings | per doz. | $8.45 |
| " 2 | —4 feet, same as No. 1 | " | 9.85 |
| " 4 | —4 feet 6 inches, Practice Stick, 16ths to the dozen, made of the Best White Hickory and Fine Line Strings | " | 16.90 |
| " 6 | —4 feet 4 inches, Home Stick, same in every way as No. 4 | " | 15.50 |
| " 6½ | —Same as No. 6, only Left Hand | " | 15.50 |
| " 12 | —4 feet 6 inches, Professional Stick, Best Selected Hickory, and strung with Best Syor Strings | " | 21.10 |
| " 13 | —Same as No. 12, only Left Hand | " | 21.10 |
| " 14 | —4 feet 6 inches, C.L.C. Stick, Choicest White Hickory, strung with Syor Strings, with Clock Cord in Wearing Parts | " | 28.15 |
| " 15 | —Same as No. 14, but Left Hand | " | 28.15 |
| LACROSSE BALLS, made of Best Soft Pure Rubber | | " | 4.30 |

## LAWN TENNIS RACKETS



Assorted Weights, 10½ to 15 ounces.

| | | |
|---|---|---|
| Bristol, White Ash Frames, strung with Oriental Gut | each | 1.85 |
| Cleveland, " " " " " | " | 2.45 |
| Standard, " " " " " Full Size, High Grade | " | 3.25 |
| Eclipse, Best " " " " " " " | " | 4.00 |
| Horseman, " " " " " Tournament Strung, Scored Handle | " | 5.00 |
| Ladies' Special, Best White Ash Frames, strung with Oriental Gut, Scored Handle | " | 5.00 |
| LAWN TENNIS BALLS.—No. 1, College Championship, Regulation Size | per doz. | 4.25 |

# LAWN TENNIS MARKERS




**The Gem**, Wooden Box Frame, Iron Ratchet Wheel, Jointed Handles ..... each $3.25

This Marker requires no mixing of material with water; marble dust, air-slacked lime, plaster of Paris, or ground plaster will answer the purpose. By sprinkling immediately after making the lines renders it more permanent.

## LAWN TENNIS POLES

No. 1—Hardwood Pole, Varnished, Plain to Drive ..... per pair $1.15
" 2— " " " " " with Iron Spike ..... " 1.50
" 3— " " Extra Heavy, Varnished, Plain to Drive, with Iron Spike and Screw Eyes .. " 2.25

## LAWN TENNIS NETS

No. 1—White Cotton, 12 Thread, 42 x 3½ feet, Double Court ..... each 2.90
" 2— " 12 " 42 x 3½ " Bound, Double Court ..... " 4.00

## GOLF STICKS

### SIMPSON'S





### WOOD CLUBS

| | | | | | |
|---|---|---|---|---|---|
| Bulger Drivers | each | $2.40 | Mid Spoons | each | 2.20 |
| Bulger Driver Brassies | " | 3.00 | Brassie Niblics | " | 2.75 |
| Drivers | " | 2.20 | Brassie Spoons | " | 2.75 |

### IRON CLUBS

| | | | | | |
|---|---|---|---|---|---|
| Cleeks | each | $2.75 | Mashies | each | 2.75 |
| Putting Cleeks | " | 2.75 | Gun Metal Putters | " | 3.00 |
| Irons | " | 2.75 | | | |

### EXTRA HEADS AND SHAFTS

| | | | | | |
|---|---|---|---|---|---|
| Heads for Bulger Drivers | each | $1.45 | Heads for Cleeks | each | 1.75 |
| " Bulger Brassies | " | 2.00 | Shafts for any style of Head | " | 1.00 |

We also keep in stock a nice assortment of Clubs made specially for Ladies' use, at same prices as above.

## GOLF BALLS

"The Edinburgh," Regulation size. This Ball is used by all the leading Clubs ..... per doz. 5.25

## TAYLOR'S GENUINE SCOTCH BOWLS

First Quality, with Ivory Buttons ..... per pair 7.10
Second " " " ..... " 5.70

# CRICKET BATS



No. **A1**—Patent Double-spliced, Spring-Handle Bat, Thoroughly Seasoned, Hand Hammered, Edges and Face hardened in such a manner that the wood is still in possession of its natural elasticity, Accurate in Balance, Specially Selected and Stamped "Arthur Shrewsbury".....each $7.80
" **1**—"Specially Selected" Match Bat, are made with very best Rattan Canes, the Joints are fitted in an Improved Manner, which gives them enormous strength and a splendid spring, while "jarring" is entirely obviated, and the hardest hit can be made without feeling the slightest sting.....each 5.95
" **2A**—All Cane Handle Club Bat, Selected, Special Line for Club use..... " 3.75
" **4** —Men's all Cane Handle Bats, not Stamped ..... " 2.50
" **3** —Youth's " " " ..... " 2.20
" **5** — " " " " Selected ..... " 2.60

## YOUTHS' POLISHED BATS

| Nos. | **01** | **04** | **05** | **06** | **07** |
|---|---|---|---|---|---|
| Each | $0.50 | 0.85 | 1.00 | 1.15 | 1.30 |

## CRICKET BALLS

No. **1A**—"Specially Selected" Treble-Sewn Match Balls, Warranted, Hand-Made, Regulation Size and Weight, as used in all matches, played by the Earl of Sheffield's Team in Australia, also the great matches in England, including England and Australia. Highly recommended by Dr. W. C. Grace and the leading English bowlers.....each 2.50
" **3**—Treble Sewn, Hand Made, Strongly Recommended, a really first-rate practice ball..... " 2.10
" **5**—Double Seam, Hand Made, Regulation Size and Weight, a good sound ball, will stand a lot of wear " 1.90
" **9**—Youths' Two-Seamed, Hand Made, Small Red, Halves..... " 0.95
" **10**—Youths' Three-Seamed, Hand Made, Large Red, Halves..... " 1.40
" **05**—Composition, Regulation Size, good practice ball..... " 0.40

## WICKETS



No. **10**—Best Selected Ash, 1¼ inch Improved Brass Ferrules.....per set 2.50
" **11**— " " " 1¼ " Brass Ferrules..... " 2.00
" **15**— " " " Polished, Youths'..... " 1.00

## LEG GUARDS

No. **3**—Buff Chamois Leather, with Continuous Straps and Buckles.....per pair 2.70
" **7**—White Buckskin, with 3 Straps, Improved Buckles..... " 3.10
" **16**—Best White Buckskin, Skeleton Pattern, with Continuous Straps and Buckles, per pair..... 4.40

## WICKET KEEPING GAUNTLETS

No. **3**—Tan Kid, Ventilated Back and Front.....per pair 3.00
" **4**—White Kid, " " " ..... " 3.00
" **6**—White Buckskin, Ventilated Back and Front..... " 3.00
" **13**—White Buckskin, " " " Youths'..... " 2.45
" **14**—Best Chamois Leather, Buff, Ventilated Back and Front, Youths'..... " 1.80

## BATTING GLOVES

No. **3** —Excelsior, Grey Rubber Backs, no Buttons.....per pair 2.30
" **3R**— " Red " " ..... " 2.55

## BOOT SPIKES

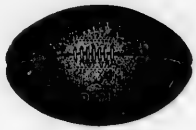
No. **15**—Sparrow Bill, Plain Steel Spike.....per gross 0.60
" **17**—Alpine, Pyramid Shape, to Drive..... " 3.00
" **19**—Blackey's, Steel Peg, to Drive..... " 3.00
" **21**—Ice Nail, Square, 4 pointed, to Screw..... " 3.00

# FOOTBALLS



ASSOCIATION

## ASSOCIATION OR RUGBY



RUGBY

| | | | |
|---|---|---|---|
| Size Nos | 3 | 4 | 5 |
| No. A—Best Grained Leather, Covers only ..... each | $1.20 | 1.30 | 1.45 |
| " B—Grained Leather, " ..... " | 1.00 | 1.15 | 1.30 |
| " C—Undressed Leather, " ..... " | 0.80 | 1.00 | 1.15 |
| Football Bladders ..... per doz. | 5.10 | 6.55 | 8.25 |

### RUBBER FOOTBALLS

| | | | | |
|---|---|---|---|---|
| Size Nos. | 2 | 3 | 4 | 5 |
| Per dozen | $7.30 | 8.50 | 9.70 | 10.90 |

These Balls require no bladder, and are inflated by means of a valve. This is by far the best Ball for youths' general use.



No. 1

## FOOTBALL SHIN-GUARDS

No. 1—Leather, length 10 inches ..... per doz. pair $ 7.20
" 2— " " 10 " with Ankle-Guards ..... " " 10.80

## QUOITS




London Pattern, Superior Wrought Steel, Hardened and Polished.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Weight per pair | 4 | 5 | 6 | 7 | 8 | 10 | 12 | 14 | 16 lbs. |
| Per pair | $1.90 | 2.35 | 2.75 | 3.20 | 3.60 | 4.90 | 7.00 | 8.50 | 10.20 |

### MALLEABLE IRON QUOITS

Weights, 3, 4, 5, 6, 7, 8, 9, 10 lbs. each ..... per lb. $0.12

## DUMB-BELLS



### IRON

Weights each, 1½, 2, 3, 3½, 4, 4½, 5, 6, 7, 8, 9, 10, 12, 14 lbs.
Per lb. ..... $0.08

### WOOD

Made of Selected Maple, Oiled, Lathe Polished.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Weights ... each | ¼ | ½ | 1 | 1½ | 2 | 2½ | 3 lbs. |
| Per pair ..... | $0.20 | 0.28 | 0.30 | 0.40 | 0.50 | 0.60 | 0.70 |

## PITCHING SHOT



Weights, 10 to 50 lbs. ..... per lb. $0.08

## INDIAN CLUBS

Made of Selected Maple, Oiled, Lathe Polished, Well Shaped and Balanced.

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Weights. each | ½ | 1 | 1½ | 2 | 3 | 4 | 5 | 6 lbs. |
| Per pair ..... | $0.25 | 0.35 | 0.40 | 0.50 | 0.60 | 0.90 | 1.00 | 1.15 |

# FENCING FOILS



| | | |
|---|---|---|
| No. **1**—Iron Mounted, Corded Handles, 34 inch Blades | per pair | $1.75 |
| " **2**—Brass " Black Leather Corded Handles, 34 inch Blades | " | 2.50 |
| " **3**— " " White " " " with Helmet Heads and White Leather Overguard, 34 inch Blades | " | 4.00 |
| " **17**—Blades only 34 inch, Polished | " | 1.20 |
| " **117**— " " " Klingenthal Blades, Polished, Fine Quality | " | 1.70 |



| | | |
|---|---|---|
| Single Sticks, Cane Baskets, Willow or Ash Sticks | per pair | 0.75 |
| Extra Sticks | per doz. | 1.50 |

## FENCING MASKS



No. **10** No. **11** No. **13** No. **38**

| | | |
|---|---|---|
| No. **10**—French Pattern, Standard Quality, Face Protecting | per pair | 2.70 |
| " **11**— " " " " Face and Ear Protecting | " | 3.50 |
| " **13**— " " " " Face, Ear and Head Protecting | " | 4.50 |
| " **38**—German " Helmet Covering Face, Ears and Back of Head, for Broadsword exercise | " | 9.50 |

## FENCING GLOVES

| | | |
|---|---|---|
| No. **14**—Fencing Gloves, without Gauntlets | per pair | 2.00 |
| " **15**— " " with " | " | 2.50 |

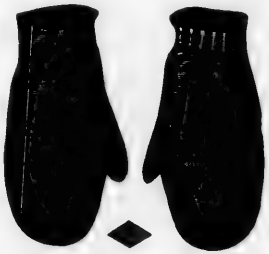
## BODY PROTECTORS

| | | |
|---|---|---|
| No. **217**—Plastrons or Fencing Body Protectors, Canvas | each | 6.00 |

# BOXING GLOVES



No. 020



No. 032



No. 024

| | | Per set. |
|---|---|---|
| No. **02** | —Boys' Boxing Gloves, made of Gold Tan Kid, Elastic Wrist and filled with Curled Hair. Style as 024 | $1.75 |
| " **07** | —Boys' Boxing Gloves, made of White Kid, Elastic Wrist, Filled with Curled Hair. Style as 024 | 1.90 |
| " **02X** | —Boys' Boxing Gloves, made of Gold Tan Kid, Elastic Wrist, and filled with Curled Hair. Style as 020 | 2.40 |
| " **03** | —Boys' Boxing Gloves, made of Wine Colored Kid, Elastic Wrist, and filled with good quality Curled Hair. Style as [illegible] | 2.40 |
| " **03X** | —Boys' Boxing Gloves, made of Wine Colored Kid, Elastic Wrist, filled with good quality Curled Hair. Style as 020 | 2.70 |
| " **04** | —Men's Boxing Gloves, made of Wine Colored Kid, Elastic Wrist, filled with good quality Curled Hair. Style as 020 | 4.00 |
| " **07X** | —Boys' Boxing Gloves, made of White Kid, Elastic Wrist, and filled with Curled Hair. Style as 020 | 2.40 |
| " **013** | —Men's Boxing Gloves, made of Benton Tan Kid, Laced, and filled with superior quality Curled Hair. Style as 024 | 5.35 |
| No. **013X** | —Men's Boxing Gloves, made of Benton Tan Kid, Laced, and filled with superior quality Curled Hair. Style as 020 | $6.00 |
| " **020** | —Men's Boxing Gloves, made of fine imported Colored Kid, fac-simile in style of the gloves used at the Corbett-Mitchell contest at Jacksonville. Laced, and filled with the finest quality of Curled Hair | 8.00 |
| " **024** | —Men's Boxing Gloves, made of Benton Tan Kid, Gold Tan Palm, California Thumb, Padded Wrist, Laced, and filled with a superior quality Curled Hair | 5.35 |
| " **026** | —Men's Boxing Gloves, made of White Kid, Elastic Wrist, and filled with good quality Curled Hair. Style as 020 | 3.35 |
| " **027** | —Men's Boxing Gloves, made of White Kid, Elastic Wrist, and filled with good quality Curled Hair. Style as 024 | 2.40 |
| " **030** | —Men's Boxing Gloves, made of Gold Tan Kid, Elastic Wrist, and filled with Curled Hair. Style as 024 | 2.40 |
| " **030X** | —Men's Boxing Gloves, made of Gold Tan Kid, Elastic Wrist, and filled with Curled Hair. Style as 020 | 3.00 |

**The better quality of Gloves are stocked in 6 and 8 ounces. 8 ounces will be sent unless weight is specified.**

## STRIKING BAG GLOVES

| | | |
|---|---|---|
| No. **034** | —Oil Tan, Padding in Back | per pair $0.80 |
| " **032** | —Wine Color, Padding in Back, with Hand Bar in Palm | " 1.35 |

## STRIKING BAGS

Complete with Bladders. Double Loop and Rubber Cord.

| | | | | | | |
|---|---|---|---|---|---|---|
| No. **81XB** | —Oiled Tan Yellow Bag, | 27 | inch | | each | $2.30 |
| " **81X** | — " " " | 30 | " | | " | 2.50 |
| " **81** | —Lined Oiled Tan Yellow Bag, | 30 | inch | | " | 2.90 |
| " **84** | — " " " | 30 | " | Double Seamed | " | 3.10 |
| " **85** | —Lined Craven Tan Dark Bag, | 30 | " | Welt " | " | 3.75 |
| " **82X** | — " " " | 30 | " | Double " | " | 4.45 |
| " **86** | —Lined Green Tan " | 32 | " | Welt " | " | 5.15 |
| " **C** | —Best Grained Leather Bag, | 30 | " | Hand Sewed | " | 3.40 |
| " **C** | — " " " | 32 | " | " | " | 4.40 |

Single Loop, for using with Platform.

| | | | | | | |
|---|---|---|---|---|---|---|
| No. **81** | —Lined Oiled Tan Yellow Bag, | 30 | inch | | each | 2.25 |
| " **25** | — " Craven Tan Dark " | 30 | " | with Seam | " | 3.10 |
| " **86** | — " Green Tan " | 32 | " | " | " | 4.50 |
| " **83** | — " " " | 32 | " | Double Seamed | " | 6.20 |
| " **C** | —Best Grained Leather " | 30 | " | Hand Sewed | " | 2.75 |
| " **C** | — " " " | 32 | " | " | " | 3.75 |



DOUBLE LOOP



SINGLE LOOP

# STRIKING BAG BLADDERS

| | | 5 | 6 | 8 |
|---|---|---|---|---|
| Nos. | | | | |
| Extra Heavy Striking Bag Bladders | each | $0.70 | 0.80 | 1.30 |

## RUBBER CORDS

36 inch, for using with Double Loop Bag, between Floor and Bag.....each $0.35

## HOME EXERCISERS

No. 1 —Single Elastic, Fitted with Patent Compound Rope, and Patent Fibre Bushed Metal Wheels, rendering when in use absolutely noiseless, Interchangeable, Enamel Finish.....each $2.20

" 2 —Double Elastic, otherwise same as No. 1..... " 3.75

" 3 —Double Elastic, with Plated Mountings..... " 4.50

" 4 —Double Elastic, Full Nickel, Polished, with Silk Elastic Cord, Wood Handles.....each 6.00

" 4½—Double Elastic, Full Nickel, Polished, with Silk Elastic Cord, Cork Handles.....each 6.75

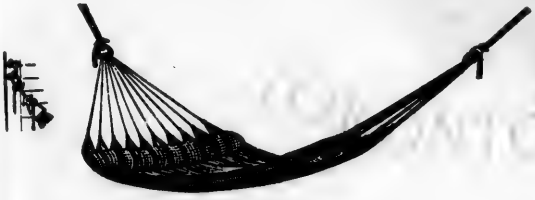


No. 1

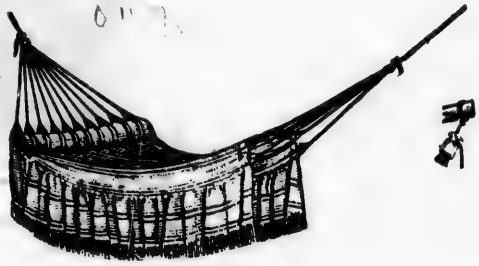


Nos. 2 to 4½

## HAMMOCKS



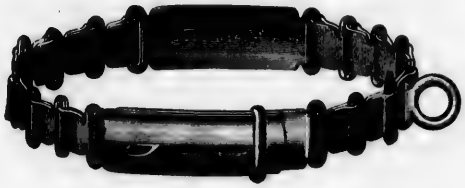
WITH PILLOW



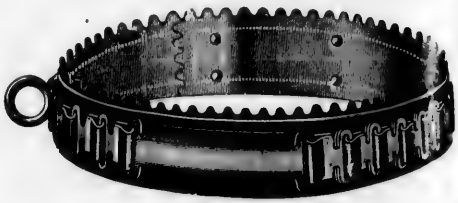
WITH VALANCE

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| No. | A1—Quarter | Color, | 34×70 | inch, | Open | Weave | | per doz. | $11.70 |
| " | B2— | " | 36×76 | " | " | one Patent Wood Spreader | | " | 14.50 |
| " | B4— | " | 36×76 | " | " | Spreader and Pillow | | " | 18.00 |
| " | B5—Full | " | 36×76 | " | " | " " and Valance | | " | 30.00 |
| " | E4— | " | 36×76 | " | Combination Weave, Spreader and Pillow | | | " | 25.00 |
| " | E5— | " | 36×76 | " | " | " " Pillow and Valance | | " | 37.00 |
| " | G5— | " | 40×78 | " | Twilled | " " " " | | " | 51.00 |
| " | K4— | " | 41×78 | " | Open | " " and Pillow | | " | 29.50 |
| " | NE4— | " | 36×76 | " | Corded | " " Stretcher and Pillow | | " | 28.00 |
| " | NE5— | " | 36×76 | " | " | " " " Pillow and Valance | | " | 40.00 |
| " | P5— | " | 40×78 | " | " | " " Pillow and Valance | | " | 50.00 |

# DOG COLLARS



UNLINED



LINED

## UNLINED

No. **260**—$\frac{1}{2}$ inch wide, lengths assorted 9 to 13 inches, Brass, Nickel-Plated ..... per doz. $2.00
" **261**—$\frac{3}{4}$ " " " " " 13 to 17 " " " " " ..... " 2.55

## WITH HARD LEATHER LININGS

No. **250S**—$\frac{1}{2}$ inch wide, lengths assorted 9 to 13 inches, Brass, Polished ..... per doz. 2.70
" **251S**—$\frac{3}{4}$ " " " " 13 to 17 " " " ..... " 3.55
" **260S**—$\frac{1}{2}$ " " " " 9 to 13 " " Nickel-Plated ..... " 3.05
" **261S**—$\frac{3}{4}$ " " " " 13 to 17 " " " ..... " 3.75
" **262S**—1 " " " " 17 to 21 " " " ..... " 5.20

## WITH CHAMOIS LINED LININGS

No. **250C**—$\frac{1}{2}$ inch wide, lengths assorted 9 to 13 inches, Brass, Polished ..... per doz. 4.50
" **251C**—$\frac{3}{4}$ " " " " 13 to 17 " " " ..... " 5.15
" **260C**—$\frac{1}{2}$ " " " " 9 to 13 " " Nickel-Plated ..... " 4.65
" **261C**—$\frac{3}{4}$ " " " " 13 to 17 " " " ..... " 5.40



No. **427**

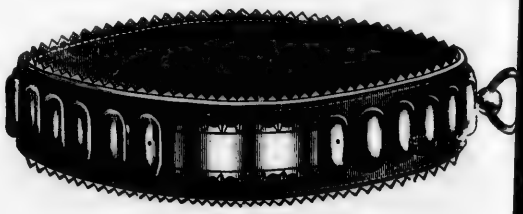


Nos. **915** and **925**

| | | Per doz. |
|---|---|---|
| No. **427**— | Lengths assorted 13 to 17 inches, Black Leather, Nickeled Trimmings and Studs | 18.00 |
| " **406**— | $\frac{3}{4}$ inch wide, lengths assorted 13 to 17 inches, Russet Leather, Nickeled Trimmings and Studs | 8.05 |
| " **407**— | 1 " " " " 16 to 20 " " " " " " " | 10.00 |
| " **415**— | $1\frac{1}{4}$ " " " " 18 to 22 " Black " " " " " | 13.00 |
| " **465**— | 2 " " " " 25 to 29 " Russet " " " " " | 16.00 |
| " **605**— | $\frac{1}{2}$ " " " " 9 to 13 " " " Chamois Lined, Nickeled Trimmings | 5.75 |
| " **915**— | $\frac{3}{4}$ " " " " 9 to 13 " " " " " " " | 6.50 |
| " **925**— | $\frac{3}{4}$ " " " " 11 to 15 " " " " " " " | 7.25 |
| " **935**— | $1\frac{1}{4}$ " " " " 14 to 20 " " " " " " " | 10.00 |



No. **945**



No. **954**

No. **945**—$\frac{7}{8}$ inch wide, lengths assorted 13 to 17 inches, Russet Leather, Chamois Lined, Nickeled Trimmings. 8.0
" **954**—$\frac{7}{8}$ " " " " 15 to 19 " " " " " " " " 13.0

# DOG COLLARS

## ROUND LEATHER COLLARS



No. **45** —Collie, ½ inch diam., lengths assorted 14 to 20 inches, Brass Trimmings, Plain Buckle ..... per doz. $ 7.20
" **45L**— " ½ " " " " " " " " " Lock " ..... " 8.60
" **71** — " ½ " " " " " " Studded " " " ..... " 10.00
" **74** —St. Bernard, ¾ inch diam., lengths assorted 18 to 30 inches, Brass Trimmings, Lock Buckle . " 20.00

## FLAT LEATHER COLLARS

No. **100**—Terrier, ⅝ inch wide, lengths assorted 12 to 15 inches, Brass Buckle and Ring ..... per doz. 3.00
" **102**— " ¾ " " " 15 " 18 " " " " ..... ..... " 4.00
" **104**— " 1 " " " 16 " 24 " " " " ..... ..... " 5.00

## METAL BAND COLLARS



No. 268N



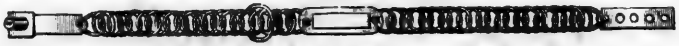
No. 352N



No. 273N

No. **268N**—Lined, ½ inch wide, lengths assorted 9 to 15 inches, Brass, Nickel-Plated ..... per doz. 8.50
" **62N**— " ⅝ " " " " 12 " 15 " " " ..... " 8.00
" **352N**— " ¼ " " " " 0 " 12 " " " ..... " 7.00
" **353N**— " 1 " " " " 12 " 15 " " " ..... " 11.20
" **273N**— " 1½ " " " to 24 inches, Brass, Nickel-Plated ..... " 24.00
" **273N**— " 1½ " " " " 26 " " " ..... " 28.80
" **273N**— " 1¾ " " " " 28 " " " ..... " 36.00
" **295N**— " 1¾ " " " " 24 " Plain " ..... " 22.00
" **295N**— " 1¾ " " " " 26 " " " ..... " 26.50
" **295N**— " 1¾ " " " " 28 " " " ..... " 32.50

## CHAIN COLLARS



### SINGLE CURB LINK

No. **5M**—Steel Chain, lengths assorted 13 to 15 inches, Lock attached ..... per doz. 4 50



### DOUBLE CURB LINK

No. **1B**—Steel Chain, lengths assorted 13 to 15 inches, Lock attached ..... per doz. 7.50
" **2B**— " " " " 18 " 24 " " " ..... " 12.00

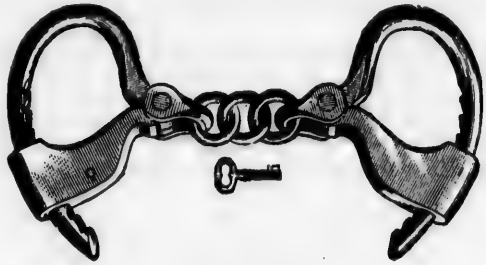


### FLAT LINK

No. **78N**—¾ inch wide, lengths assorted 9 to 15 inches, Lock attached, Nickel-Plated ..... per doz. 18.00

# HANDCUFFS

## TOWERS' ADJUSTABLE DOUBLE LOCK



Nos. 10 and 11

No. **10**—Forged Steel Shackles, Polished ..... per pair $6.00
" **11**— " " " Nickel-Plated ..... " 7.15

They are adjustable to any size and can be closed instantly to an exact and secure fit. Two Tumbler Locks, one Self-Locking, the second locked with the Key. The same Key unlocking both when double locked by turning twice around in the same direction.

## BEAN'S PATENT HANDCUFFS



Nos. 1 and 2

No. **1**—Polished, Adjustable, Weight 14 ounces, for Patrolmen ..... per pair $6.00
" **1**—Nickel-Plated, " " 14 " " ..... " 7.15
" **2**—Polished, " " 17 " Prisons ..... " 6.00
" **2**—Nickel-Plated, " " 17 " " ..... " 7.15

These Cuffs have one Link and two Swivels. The Lock has three Bolts, each independent of the other, supplied with Stop Catch which is operated with the thumb by a button on the outside of the case and prevents them being locked by the prisoner in a tussle with the officer who is attempting to arrest him.

## TOWERS' PERFECT TWISTERS



No. 21

No. **21**—Welded Steel Chain, Nickel-Plated, Weight 3 ounces ..... each $1.50
" **23**—Phillips' Patent Police Nippers, Forged Steel, Nickel-Plated, Weight 4½ ounces ..... " 1.50

# KEY RINGS AND CHAINS



No. 4869



No. 5117



No. A54



No. 100 and 101



No. 1143



No. 630

## KEY RINGS

| | Per gross. |
|---|---|
| No. **4869**—Gilt, round Steel, Split, Assorted on Dozen Cards | $5.00 |
| " **5117**—Polished Steel, Split, with Bone Labels, Assorted on Dozen Cards | 3.30 |
| " **1143**—Nickel-Plated Flat Steel, with Patent Lock, Assorted on Dozen Cards | 16.00 |
| " **5169**—Polished Flat Steel, Split, Decorated on Dozen Cards | 4.00 |

## SPLIT RINGS

| | | | |
|---|---|---|---|
| Outside diameter | ⅝ | 9/16 | ⅝ inch. |
| No. **4368**—Steel Polished, per gross | $0.50 | 0.60 | 0.80 |

## KEY CHAIN RINGS

Length, **5½** inches.

| | Per doz. |
|---|---|
| No. **630**—Polished Steel, with Screw Fastening | $2.40 |
| " **5371**—Nickel Steel Chain, with Snap and Ring | 0.60 |
| " **5373**—Gilt Steel Chain, with Snap and Ring | 1.00 |

## KEY CHAINS

Length, **20** inches.

| | Per doz. |
|---|---|
| No. **100**—Steel, Nickel-Plated | $1.90 |
| " **101**—Aluminum | 2.30 |
| " **11356**—Polished Steel Chain, Straight Link, Heavy, with 1¼ inch Split Ring and Leather Button Loop | 1.00 |
| " **5752**—Polished Steel Chain, Twisted Link, with Fancy Key Ring and Leather Button Loop | 1.50 |
| " **6489**—Polished Steel Chain, Light Double Link, with 1⅛ inch Split Ring, and Steel Button Loop | 0.50 |
| " **A54**—Nickel-Plated Steel Chain, Twisted Link, with Snap and Leather Button Loop | 4.90 |

## MAGNETS



| Size | **2** | **3** | **4** | **5** | **6** in. |
|---|---|---|---|---|---|
| No. **904**—Jap'd Red, per doz. | $0.70 | 1.00 | 1.80 | 2.80 | 4.00 |

## SPECTACLES



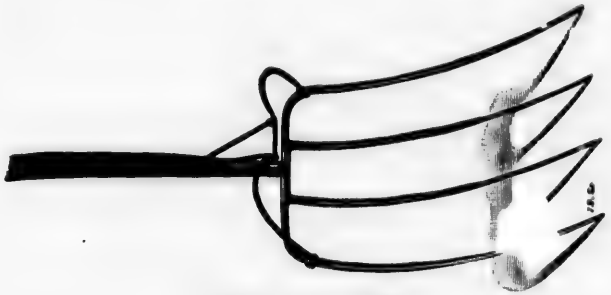
| | |
|---|---|
| No. **123C**—Light Steel Frame, Blued...per doz. | 2.50 |
| " **128½**—Light Steel Frame, Blued, with Two Screws and Round Sides....per doz. | 3.50 |

# HARVESTING TOOLS



3 TINE HAY FORK

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No. | 97—2 | Tine, | Cast Steel, | Boys' Fork, | Balloon Tine | | per doz. | $6.00 |
| " | 98—2 | " | " | Hay Fork, | Capped Ferrule, | Balloon Tine | " | 7.00 |
| " | 99—2 | " | " | " | " | Bent Han | " | 7.50 |
| " | 101—2 | " | " | " | Strapped Ferrule, | Capped, Balloon Tin | " | 8.50 |
| " | 104—3 | " | " | " | Capped Ferrule, | Balloon Tine | " | 8.50 |
| " | 105—3 | " | " | " | " | Bent Handle | " | 9.00 |
| " | 107—3 | " | " | " | Strapped Ferrule, | Capped, Balloon Tine | " | 9.75 |
| " | 108—3 | " | " | " | " | Bent Handle | " | 10.25 |
| " | 109—3 | " | " | Straw Fork, | Capped Ferrule, | 14 inch Balloon Tine, Straight Handle | " | 10.25 |
| " | 113—4 | " | " | " | Plain Capped Ferrule, | 16 inch Balloon Tine, Bent Handle | " | 15.75 |



4 TINE BARLEY FORK

With Moveable Back.

| | | | | | | | Per doz. |
|---|---|---|---|---|---|---|---|
| No. | 215—4 | Tine, | Cast Steel, | Barley Fork, | Plain Capped Ferrule, | 20 in. Balloon Tine, Bent Handle | 17.75 |
| " | 115—4 | Tine, | Cast Steel, | Barley Fork, | Plain Capped Ferrule, | 20 in. Balloon Tine, Bent Handle, with Moveable Back | 19.75 |



4 TINE D. H. MANURE FORK

| | | | | | | | | Per doz. |
|---|---|---|---|---|---|---|---|---|
| No. | 120—4 | Tine, | Cast Steel, | Manure Fork, | L. H., | Capped Ferrule, | Balloon Tine, Solid Steel Shank | 11.75 |
| " | 121—4 | " | " | " | " | Strapped " | Capped, Balloon Tine, Solid Steel Shank | 13.25 |
| " | 122—4 | " | " | " | D. H., | Capped " | Balloon Tine, Solid Steel Shank | 13.00 |
| " | 123—4 | " | " | " | " | Strapped " | Capped, Balloon Tine, Solid Steel Shank | 14.25 |
| " | 128—5 | " | " | " | L. H., | Capped " | Balloon Tine, Solid Steel Shank | 18.00 |
| " | 129—5 | " | " | " | " | Strapped " | Capped, Balloon Tine, Solid Steel Shank | 19.25 |
| " | 130—5 | " | " | " | D. H., | Capped " | Balloon Tine, Solid Steel Shank | 19.00 |
| " | 131—5 | " | " | " | " | Strapped " | Capped, Balloon Tine, Solid Steel Shank | 20.50 |
| " | 132—6 | " | " | " | L. H., | Capped " | Balloon Tine, Solid Steel Shank | 21.00 |
| " | 133—6 | " | " | " | " | Strapped " | Capped, Balloon Tine, Solid Steel Shank | 22.50 |
| " | 134—6 | " | " | " | D. H., | Capped " | Balloon Tine, Solid Steel Shank | 22.00 |
| " | 135—6 | " | " | " | " | Strapped " | Capped, Balloon Tine, Solid Steel Shank | 23.25 |

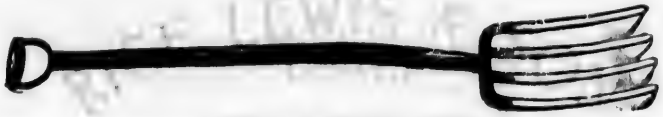
# FORKS



## 4 TINE D. H. MANURE FORK

**Acme Double Shank.**

No. **124**—4 Tine, Cast Steel, Manure Fork, L. H., Capped Ferrule, Balloon Tine, Solid Steel Shank..per doz. $13.00
" **125**—4 " " " " Strapped Ferrule, Capped, Balloon Tine, Solid Steel Shank.....per doz. 14.50
" **126**—4 Tine, Cast Steel, Manure Fork, D. H., Capped Ferrule, Balloon Tine, Solid Steel Shank.. " 14.00
" **127**—4 " " " " Strapped Ferrule, Capped, Balloon Tine, Solid Steel Shank.....per doz. 15.75



## 4 TINE D. H. SPADING FORK

No. **136**—4 Tine, Cast Steel Spading Fork, L. H., Capped Ferrule.....per doz. 15.75
" **137**—4 " " " " " Strapped Ferrule, Capped..... " 17.50
" **138**—4 " " " " D. H., Capped " ..... " 17.00
" **139**—4 " " " " " Strapped " Capped..... " 18.00



## 4 TINE L. H. POTATO FORK

No. **140**—4 Tine, Cast Steel Potato Fork, L. H., Capped Ferrule .....per doz. 12.75
" **141**—4 " " " " D. H., " " ..... " 14.00



## 4 TINE POTATO HOOK

No. **142**—4 Tine, Cast Steel Potato Hook, Round Back.....per doz. 8.50
" **144**—4 " " " " Diamond Back..... " 10.00



## 4 TINE MANURE DRAG

No. **149**—4 Tine, Cast Steel Manure Drag.....per doz. 10.50
" **150**—5 " " " " ..... " 12.50

# VEGETABLE SCOOPS



No. **152**—10 Tines, Cast Steel Vegetable Scoop, D. H. 16 x 12½ inches ..... per doz. $22.00
Little Giant, 11 Tines, Malleable Iron Vegetable Scoop, 14 x 12½ " ..... " 28.00

## HOES



SOLID SOCKET FIELD HOE

No. **153**—Cast Steel, Riveted Shank, Field Hoe, 8 x 5 inch ..... per doz. 5.50
" **154**— " Solid Neck, " 8 x 5 " ..... " 7.50
" **155**— " " Socket, " 8 x 5 " ..... " 9.00
" **156**— " " Neck, Garden Hoe, 6 x 4½ " ..... " 7.00
" **158**— " " " Ladies' " 4½ x 3½ " ..... " 6.50



SOLID NECK TURNIP HOE

No. **160**—Cast Steel, Solid Neck, Turnip Hoe, Assorted, 8 to 10 inch Blade ..... per doz. 8.25



SOLID NECK CARROT HOE



SOLID NECK WEEDING HOE

No. **162**—Cast Steel, Solid Neck, Carrot Hoe ..... per doz. 7.00
" **165**— " " 4-Tooth Weeding Hoe ..... " 8.25

## SOLID NECK TURF EDGERS



No. **161**—Cast Steel, Solid Neck, Turf Edger, 9 x 3 inch, L Handle ..... per doz. 13.50

## SOLID NECK WEED CUTTERS OR THISTLE SPUDS



No. **166**—Cast Steel, Solid Neck, Weed Cutter or Thistle Spud ..... per doz. 5.00

## MORTAR HOES



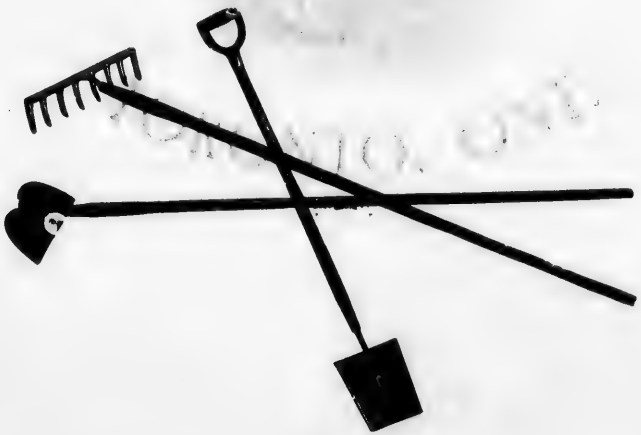
No. **168**—Improved Cast Steel Mortar Hoe, Hammer Finished, Size 9½ x 6½ inches.....per doz. $13.50
" **167**—Cast Steel Mortar Hoe, Hammer Finished, Size 9½ x 6½ inches, without Holes ..... " 12.50

## ICE CHOPPERS



No. **60**—Cast Steel Ice Chopper or Side Walk Cleaner, L Handle .....per doz. $12.50

## GARDEN SETS



No. **169**

No. **169**—Cast Steel Garden Tools (Spade, Hoe, Rake).....per set 2.50

# GARDEN RAKES



## MALLEABLE IRON GARDEN RAKES

No. **180**—Malleable Iron Garden Rake, Patent Braced Head, 12 Teeth ..... per doz. $6.00
" **181**— " " " " " 14 " ..... " 6.50
" **182**— " " " " " 16 " ..... " 7.00



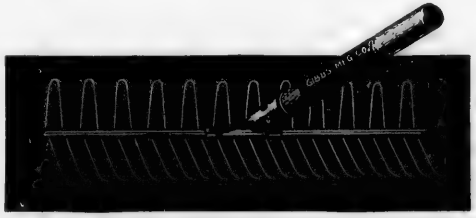
## STEEL GARDEN RAKES

No. **171**—Cast Steel Garden Rake, Patent Brace Head, Solid Steel Shank, 10 Teeth, Concave .... per doz. 8.75
" **172**— " " " " " " " 12 " " ..... " 9.75
" **173**— " " " " " " " 14 " " ..... " 10.75
" **174**— " " " " " " " 16 " " ..... " 12.00

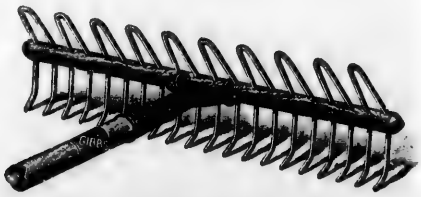


**No. 300**

No. **300**—Dunn's Lawn Rake, Steel Blade ..... per doz. 12.00



**Nos. 20 and 24**



**"OHIO GIRL"**

No. **20**—Gibbs' Lawn Rake, All Steel, 17½ inch Head, 20 Teeth, Reversible, Heavily Tinned ..... per doz. 8.00
" **24**— " " " " 21 " 24 " " " ..... " 8.70
Ohio Girl—18 inch Head, 20 Coppered Steel Wire Teeth, Heavily Tinned ..... " 6.00

# HAY RAKES



| | | |
|---|---|---|
| No. 1—Wood Bow, Straight Handle | per doz. | $1.20 |
| " 2— " Bent " | " | 1.35 |
| " 3—Wire Bow, Straight " | " | 1.25 |
| " 4— " Bent " | " | 1.40 |

## HANDLES

**Polished Fork Handles, Chucked and Bored.**

| Length | 4 | 4½ | 5 | 5½ | 6 ft. |
|---|---|---|---|---|---|
| Extra Ash, Hay Fork Handles, Straight ..... per doz. | $1.20 | 1.40 | 1.60 | 1.80 | 2.00 |
| " " " Bent " | 1.45 | 1.65 | 1.85 | 2.10 | 2.35 |
| " Barley " " " | .... | .... | 2.00 | 2 25 | .... |
| " Manure " Long, Bent " | 1.75 | .... | .... | .... | .... |
| " " " Short without D. Top ..... per doz. | | | | | 1.10 |
| " " " " Complete with D. Top ..... " | | | | | 2.00 |
| " Hoe Handles, 4½ feet ..... " | | | | | 0.95 |
| " Turnip Hoe Handles, 5 feet ..... " | | | | | 1.10 |
| " Rake " 5½ " ..... " | | | | | 1.25 |
| " Long Shovel Handles, 4½ feet ..... " | | | | | 2.00 |
| " " Spade " 4½ " ..... " | | | | | 2.00 |
| " D. Shovel " ..... " | | | | | 2.50 |
| " D. Spade " ..... " | | | | | 2.50 |
| Malleable D. Tops, only for Manure Forks ..... " | | | | | 1.60 |
| Spade Lifters, Malleable Iron, Wood Handle ..... " | | | | | 3.20 |

## FERRULES

| | Hoe | Rake | Hay Fork, Plain | Manure Fork, Plain | Pike Pole Ferrule, 4 x 1½ x 1 inch. |
|---|---|---|---|---|---|
| Per dozen..... | $0.90 | 0.90 | 0.95 | 1.10 | 1.10 |

## GRAIN CRADLES



HALF MULAY



TURKEY WING

| | | |
|---|---|---|
| Half Mulay, with Iron Braces, without Scythe ..... per doz. | | 18.00 |
| " " " Complete with Scythe ..... " | | 32.00 |
| Turkey Wing, with Wooden Braces, without Scythe ..... " | | 16.00 |
| " " " Complete with Scythe ..... " | | 30.00 |
| CRADLE FINGERS ..... " | | 1.50 |

# SNATHS



No. 00

No. 00—New Improved Swing Socket, Brass Ferrules ..... per doz. $12.50



PATENT LOOP

| Nos | 1 | 2 | 3 |
|---|---|---|---|
| Patent Loop ..... per doz. | $12.00 | 11.00 | 10.00 |



RING AND Z PLATE

No. 1—Ring and Z Plate ..... per doz. 11.00



DRIVE RING AND SOCKET

| Nos | 2 | 3 |
|---|---|---|
| Drive Ring and Socket ..... per doz. | $10.00 | 9.00 |



DOUBLE RING BRUSH

No. 1—Double Ring Brush ..... per doz. 12.00

# SCYTHES AND GRASS HOOKS

## GRASS SCYTHES



| | | | | |
|---|---|---|---|---|
| No. 1—Cast Steel Grass Scythes, Narrow Heel | | | per doz. | $ |
| " 2—Princess | " | " " | " | |
| " 3—Tip Top | " | " " | " | |
| " 4—Beaded Clipper | " | " " | " | |
| " 5— | " | Wide " | " | |
| " 6—Climax | " | " " | " | |
| " 7—Damascus | " | " " | " | |
| " 8—Whiting's Pride | " | Narrow " | " | |
| " 9— | " | Wide " | " | |
| " 10—Concave | " | " " | " | |
| " 11—Lawn Scythes | | | " | |

## CRADLE SCYTHES




| | | |
|---|---|---|
| No. 12—"Silver Steel" Cradle Scythes, Ground Sharp | per doz. | |
| " 13—"Harvest King" " " | " | |

## BUSH OR BRUSH SCYTHES



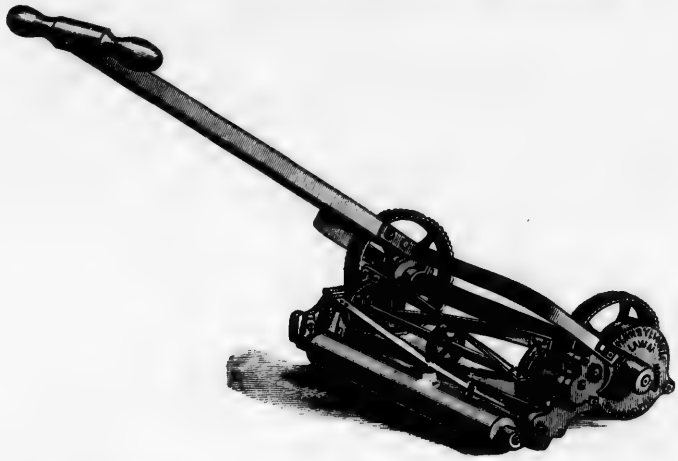

| | | |
|---|---|---|
| No. 14—Cast Steel Bush or Brush Scythes | per doz. | |

## GRASS HOOKS



| | | |
|---|---|---|
| No. 2—Grass or Reaping Hooks, Cast Steel | per doz. | |
| " 3— " " " " | " | |
| " 4— " " " " | " | |

# PENNSYLVANIA LAWN MOWERS



### LOW WHEEL

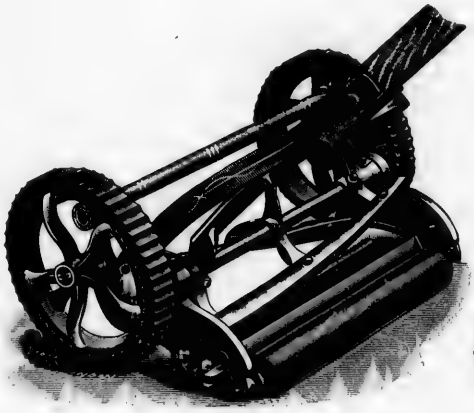
Open Cylinder, Height of Wheels 8 inches.

| Cut | 14 | 16 | 18 inch. |
|---|---|---|---|
| Each | $17.00 | 19.00 | 21.00 |

### HIGH WHEEL

Open Cylinder, Crucible Steel Knives, Height of Wheels 10½ inches.

| Cut | 17 | 19 inch. |
|---|---|---|
| Each | $28.00 | 31.00 |



MAXWELL



WOODYATT



PHILADELPHIA

### MAXWELL'S HIGH WHEEL LAWN MOWERS

| Cut | 12 | 14 | 16 | 18 inch. |
|---|---|---|---|---|
| Each | $6.00 | 6.50 | 7.00 | 7.50 |

### WOODYATT'S HIGH WHEEL LAWN MOWERS

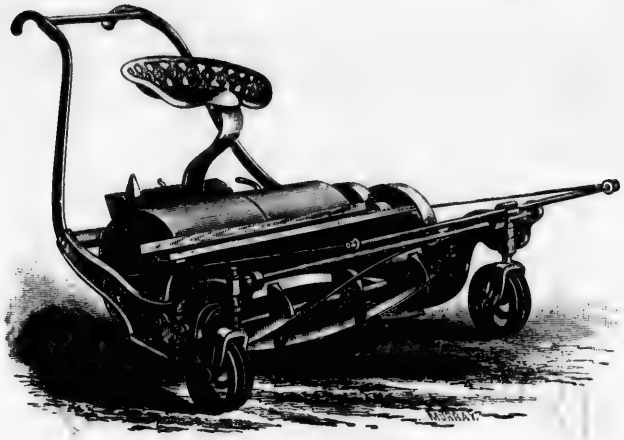
Open Cylinder, Height of Wheels 10½ inches.

| Cut | 12 | 14 | 16 | 18 | 20 inch. |
|---|---|---|---|---|---|
| Each | $6.75 | 7.00 | 7.50 | 8.25 | 10.00 |

### PHILADELPHIA LOW WHEEL LAWN MOWERS

| Cut | 10 | 12 | 14 | 16 inch. |
|---|---|---|---|---|
| Each | $6 00 | 6.00 | 6.00 | 6.00 |

# HORSE LAWN MOWERS



THE NEW EXCELSIOR

| | | | | |
|---|---|---|---|---|
| 25 inch Cut, without Seat or Shafts, Shipping Weight 360 lbs | | | each | $65.00 |
| 25 " with Shafts and Side-draught Attachment, Shipping Weight 390 lbs | | | " | 75.00 |
| 30 " with Seat, Shafts and Side-draught Attachment, " | 610 " | | " | 110.00 |
| 35 " " " " " " | 660 " | | " | 135.00 |
| 40 " " " " " " | 710 " | | " | 170.00 |

We do not recommend the use of a seat on the 25 inch cut Mower, but we can furnish the same when desired, at an additional cost of $5.00 to the list price of this size Mower.

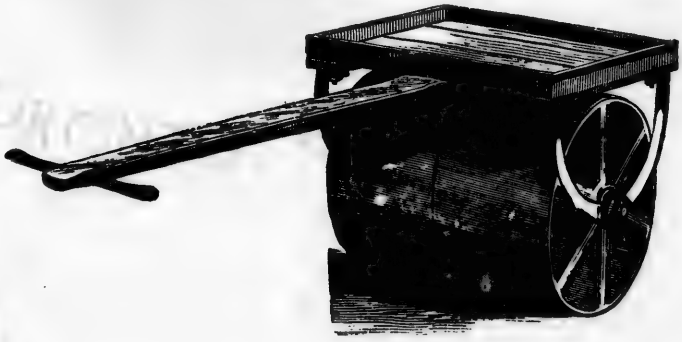
The New Excelsior Horse Lawn Mower is furnished with Side-draught Attachment that permits the horse to walk only on the cut grass. The Caster Wheels are made in sections to prevent the rolling down of standing grass or marking of lawn. These machines have uniformly given entire satisfaction.

Full directions for setting up accompany each Mower.




No. 1

## LAWN AND GARDEN ROLLERS



No. 2

| | | | | |
|---|---|---|---|---|
| No. 1—20 inches Wide, 20 inches Diameter, Weight 350 lbs | | | each | 20.00 |
| "2—24 " 20 " " 265 " | | | " | 24.00 |

Rollers of special sizes and weights made to order.

# CORN KNIVES AND HOOKS



Barclay Band Knives, Blades 18 inches Long, Riveted Handles.....per doz. $3.00

## CORN HOOKS



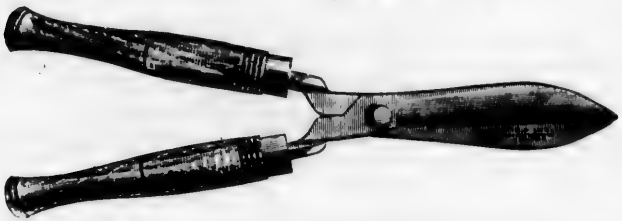

| | | |
|---|---|---|
| Eureka Corn Knives | per doz. | 3.20 |
| Barclay " | " | 5.70 |

## HAY KNIVES




| | | | | |
|---|---|---|---|---|
| Improved Lightning Hay Knives, | American Pattern | | per doz. | 12.50 |
| Heath's | " | | " | 15.00 |
| T Handle | " | Spear Point | " | 12.00 |
| L Handle | " | " | " | 12.00 |
| Barclay | " | | " | 12.00 |

# GARDEN SHEARS

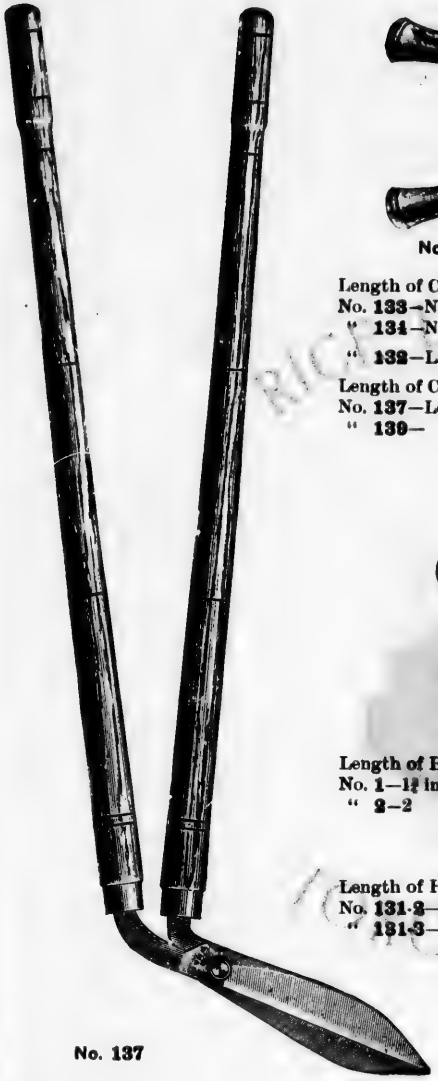


**No. 134, GARDEN SHEARS WITH PRUNING NOTCH**

| | | | | | | |
|---|---|---|---|---|---|---|
| Length of Cut | | 7½ | 8 | 8½ | 9 | 10 inch. |
| No. 133—Not Notched | per pair. | $1.35 | 1.40 | 1.50 | 1.70 | .... |
| " 134—Notched | " | 1.55 | 1.60 | 1.70 | 1.90 | 2.10 |

" 132—Ladies' Garden Shears, Length of Cut 8 inches....per pair. $1.50

| | | |
|---|---|---|
| Length of Cut | | 9 inches. |
| No. 137—Long Handle Border Shears | per pair. | 2.55 |
| " 139— " Grass " | " | 2.55 |



No. 137

## TREE PRUNERS




**BUCKEYE TREE PRUNERS**

| | | | |
|---|---|---|---|
| Length of Handle | | 26 | 30 inch. |
| No. 1—1½ inch Cut | each. | 1.25 | .... |
| " 2—2 " | " | .... | 2.00 |

**ENGLISH BRANCH SHEARS**

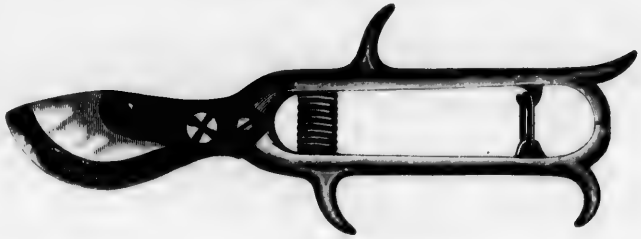
| | | | |
|---|---|---|---|
| Length of Handle | | 30 | 36 inch. |
| No. 131-2—2½ inch Cut | each | 2.95 | .... |
| " 131-3—3 " | " | .... | 3.35 |



**WATERS' PATTERN**

Waters' Pattern, 6, 8 or 10 feet Handle ..... per doz. 16.00

# PRUNING SHEARS



No. 2

No. 2—Pruning and Sheep-Toe Shear, with Spiral Brass Spring, Length 9 inches ..... per doz. $7.50



No. 1636



No. 7191

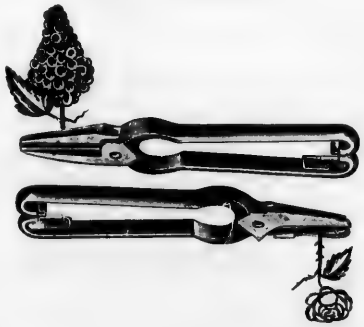


No. 7210

| | | | | | |
|---|---|---|---|---|---|
| Length | 7½ | 8 | 8½ | 9 | inch. |
| No. 1636—Black, Steel ..... per doz. | .... | 36.00 | 6.50 | 7.10 | |
| " 7191— " Forged Steel ..... " | .... | 6.60 | 7.10 | 7.70 | |
| " 7210— " " ..... " | 6.00 | .... | .... | .... | |

Extra Springs for Nos. 1636 or 7191 Shears ..... per doz. 0.75

## FRUIT GATHERER



No. 1—Fruit or Flower Gatherer ..... per doz. 5.00

# SHEEP SHEARS



| | | | |
|---|---|---|---|
| Length | | **11** | **12** inch. |
| No. **1500**—Boker's, Bent, Half Polished | per doz. | $3.60 | .... |
| " **1501**— " " " " Better Quality | " | .... | 4.50 |




| | | | |
|---|---|---|---|
| Length of Blade | | **6** | **6½** inch. |
| No. **3**—Bent, Half Polished | per doz. | 9.00 | .... |
| " **4**— " " " | " | .... | 10.59 |

## GARDEN TROWELS



**No. 1002** **No. 6**

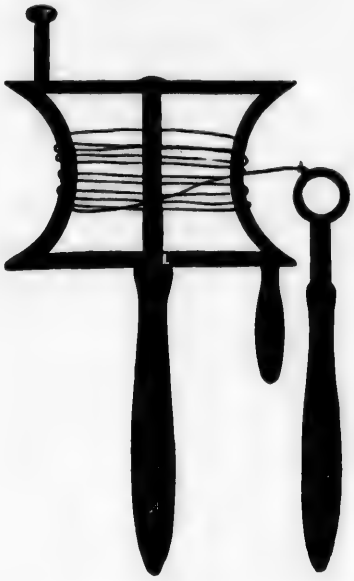
| | | |
|---|---|---|
| No. **1002**—Forged Steel, Socket, 6 inch Blade, Half Polished, balance of Blade and Socket Blued, Polished Beech Handle | per doz. | 3.30 |
| " **1002½**—Forged Steel, as No. 1002, only with long Handle, 16 inches | " | 3.70 |
| " **6**—Plain Steel, Bright 6 inch Blade | " | 1.00 |
| " **2**—Angle Trowel, " 7 " " | " | 4.70 |
| " **3**— " " " 5 " " for Pot use | " | 2.70 |



**No. 1003½**

No. **1003½**—Forged Steel, Socket, 4½ inch Blade, Half Polished, balance blued, polished Beechwood Handle per doz. ..... 4.50

# GARDEN REELS AND HOOKS



No. 1



No. 2

No. 1—Garden Line Reels, Malleable Iron, Japanned ..... per doz. $11.50
" 2— " Hook or Nail Claw, Malleable Iron, Japanned, Wood Handle ..... " 3.00

## ORNAMENTAL LAWN VASES



No. 2



Nos. 6 and 7 with Base

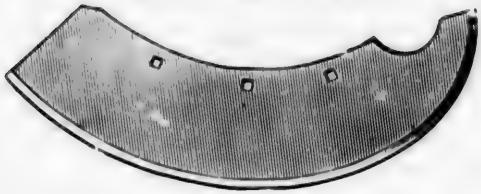
No. 2—Vase only, Height 20 inches, Diameter of Top 16 inches ..... each 5.00
" 3— " " 24 " " " 24 " with Handles at Side ..... " 8.35
" 6—Vase and Base, Height 41 inches, Diameter of Top 16 inches, Width of Base 14 inches..... " 9.15
" 7— " " " 38 " " " 38 " " " 22 " ..... " 25.00

## FOUNTAINS

No. 67—Height 4 feet 6 inches, Diameter of Basin 4 feet ..... each 75.00

No. 67 Fountain is constructed of Vases Nos. 6 and 7 extended, Ornamental Basin attached at Base.

## CHAFF KNIVES



No. 4—Cast Steel.....per doz. $16.20

## CORN PLANTERS



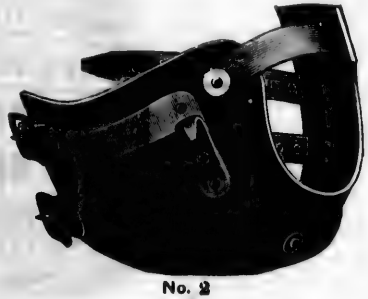

"King of the Field" Corn Planters, with Flexible Iron Drop, Iron Seed Box and Channel.....per doz. $ 14.00

## CORN HUSKERS

### STANDARD



No. 1



No. 2

No. 1—Full Leather, Covering Palm and Back of Hand, Nickel-Plated Steel Palm.....per doz. 8.00
" 2—Same as No. 1 but with Steel Band in place of Full Steel Palm ..... " 7.00



No. 3

No. 3—Leather Palm only, Back Straps, Steel Band as in No. 2 .....per doz. 4.00
One dozen in a box.

# CORN HUSKERS



No. 2000




No. P



No. E

No. 2000—Steel Pin, Split Calf, or Kip Stock ..... per doz. $1.00
" P—Tinned Steel Pin, Best Calf Strappings ..... " 1.50
" E— " " Adjustable, can be used over Glove ..... " 4.70

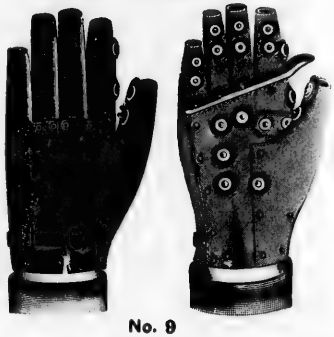
Nos. 2000 and P three dozen in a Box, No. E one dozen.




No. R



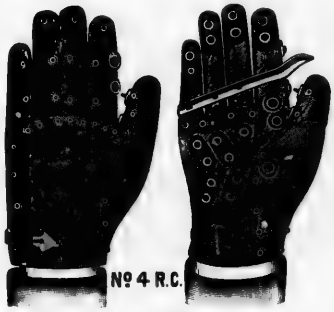

No. O



No. 9

No. R—Tinned Steel Pin, Heavy Calf Cot, Protected by Steel Rivets ..... per doz. $2.50
" O— " " Combination Thumb and Finger Cots, Protected by Steel Rivets ..... " 5.50
" 9— " " Moleskin Stock, Protected by Tinned Steel Rivets ..... per doz. pairs. 10.50

Nos. R and O one dozen in a Box, No. 9 one dozen pairs.




No. 4RO




No. 21X




No. 4RC—Tinned Steel Pin, Brown Colored Calf Skin, Protected by Tinned Steel Rivets ..... per doz. pairs. 22.50
" 21X—Buckle Wrist Bands, No. 2 Calf Stock, Brass Buckles ..... per doz. 1.80

No. 4RC half-dozen pairs in a Box, No. 21X one dozen bands.

## COTTON FLANNEL MITTENS

No. 81—Best 8 oz. Grey Duck, Tipped Palm and Thumb ..... per doz. pairs. 1.80
" 70— " 8 " Cotton Flannel, with Double Palm and Thumb ..... " " 2.20
" 27— " 8 " " Double Palm and Leather Thumb, also Strap on Wrist ... " " 2.80

## HARVEST MITTS

| | | | |
|---|---|---|---|
| Length ..... | 10 | 11 | inch. |
| No. 21—Sheep Skin, with Thumb and Finger, Flesh Side Out ..... per doz. pairs. | $3.20 | 3.70 | |
| " 22— " Tanned, with Thumb and Finger ..... " " | 4.00 | 4.20 | |
| " 23— " " Heavy, with Thumb and Finger ..... " " | 4.40 | 4.50 | |
| " 24—Excelsior Waterproof, Chrome Tanned, with Thumb and Finger ..... " " | 4.80 | 5.30 | |
| " 25—Saranac, with Black Top, Thumb and Finger, 11½ inch ..... per doz. pairs. | $6.00 | | |
| " 26—Sheep Skin, without Finger, 10 inch ..... " " | 4.00 | | |
| " 27—Saranac, " 10 " ..... " " | 4.80 | | |
| " 28—Harvest Gloves, Sheep Skin, 10 " ..... " " | 7.20 | | |

## THRESHER OR BINDING MITTS

No. 10—15 inch, Sheep Skin, with Finger and Thumb ..... per doz. pairs. 6.50
" 11—15 " Chrome Body, with Sheep Skin Top, with Finger and Thumb ..... " " 8.50
" 12—17 " All Sheep Skin, Heavy, with Finger and Thumb ..... " " 10.50
" 13—15 " Saranac Body, Sheep Skin Top, with Finger and Thumb ..... " " 15.00
" 14—15 " Sheep Skin, with Buckskin Facing, with Finger and Thumb ..... " " 16.00

# SQUARE POINT SHOVELS



Patent Plain Back, D Handle.

| | | | |
|---|---|---|---|
| No. **20D**—Jones', Solid Cast Steel, No. 2, Polished | per doz. | $16.50 |
| No. **20D**, Black, $0.25 net per dozen less. | | |
| " **40D**—Burns', Solid Cast Steel, No. 2, Polished | " | 15.00 |
| No. **40D**, Black, $0.25 net per dozen less. | | |
| " **60D**—Old's, Solid Steel, No. 2, Polished | " | 12.50 |



Patent Plain Back, Long Handle.

| | | |
|---|---|---|
| No. **20L**—Jones', Solid Cast Steel, No. 2, Polished | per doz. | 16.50 |
| " **40L**—Burns', " " " 2, " | " | 15.00 |
| " **60L**—Old's, Solid Steel, No. 2, Polished | " | 12.50 |

## ROUND POINT SHOVELS



Patent Plain Back, D Handle.

| | | |
|---|---|---|
| No. **25**—Jones', Solid Cast Steel, No. 3, Polished | per doz. | 17.00 |
| No. **25**, Black, $0.25 net per dozen less. | | |
| " **44**—Burns', Solid Cast Steel, No. 3, Polished | " | 15.50 |
| No. **44**, Black, $0.25 net per dozen less. | | |
| " **64**—Old's, Solid Steel, No. 2, Polished | " | 12.50 |



Patent Plain Back, Long Handle.

| | | |
|---|---|---|
| No. **26**—Jones', Solid Cast Steel, No. 2, Polished | per doz. | 16.50 |
| " **45L**—Burns', " " " " 2, " | " | 15.00 |
| " **64**—Old's, " Steel, No. 2, Polished | " | 12.50 |
| " **65**—Old's' " " (Narrow), No. 2, Polished | " | 12.50 |
| " **114**—Eley's, Miners' Shovels, Cast Steel, Riveted Back Strap, Polished, Spring Point | " | 13.50 |

# D HANDLE SPADES




Patent Plain Back.

| | | | |
|---|---|---|---|
| No. **24D**—**Jones'**, Solid Cast Steel, No. 2, Polished | per doz. | $16.50 |
| " **43D**—**Burns'**, " " " 2, " | " | 15.00 |
| " **47** — " Toy Spades | " | 11.00 |
| " **63D**—**Old's**, Solid Steel, No. 2, Polished | " | 12.50 |

## LONG HANDLED SPADES

| | | |
|---|---|---|
| No. **24L**—**Jones'**, Solid Cast Steel, No. 2, Polished | per doz. | 16.50 |
| " **43L**—**Burns'**, " " " 2, " | " | 15.00 |
| " **63L**—**Old's**, Solid Steel, No. 2, Polished | " | 12.50 |

## POST HOLE SPADES



Patent Plain Back, D Handle.

No. **155**—**Jones'**, Solid Cast Steel, Polished, 15×5½×6 inch, (Concave) ..... per doz. 14.00

## CLAY SPADES



Patent Plain Back, D Handle.

No. **156**—**Jones'**, Solid Cast Steel, Polished, 12½×7 inch ..... per doz. 14.00

## DITCHING SPADES



No. **154**—**Jones'**, Solid Cast Steel, Polished, 15½×7½×5½ inch, (Flat) ..... per doz. 14.00

# DRAINING SPADES



Patent, Solid Plain Back.

| | | | |
|---|---|---|---|
| No. **151**—Jones', Solid Cast Steel, No. 2, Heavy, Polished, 17 x 5½ x 4½ inches | per doz. | $14.00 |
| " **152**— " " " " 3, " " 17 x 4½ x 3 " | " | 14.00 |
| " **161**—Burns', " " " 2, Light, " 17 x 5½ x 4½ " | " | 13.00 |
| " **162**— " " " " 3, " " 17 x 4½ x 3 " | " | 13 00 |

RICE LEWIS & SON

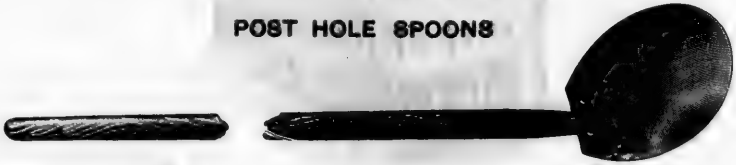
## ENGLISH DRAINING SPADES



Solid Cast Steel.

| | | | |
|---|---|---|---|
| No. **649**—Argyle & Co.'s, Solid Cast Steel, Strapped, ½ Bright, 17 x 6 x 3½ inches | per doz. | 18.40 |
| " **650**— " " " " Bright, 17 x 6 x 3½ " | " | 25.75 |
| " **651**—A. F. Parkes & Co.'s, Solid Cast Steel, Strapped, ½ Bright, 18 x 6 x 3½ inches | " | 23.00 |
| " **652**— " " " " Bright, 18 x 6 x 3½ " | " | 29.00 |

## POST HOLE SPOONS



No. **172**—Cast Steel, Riveted Spoon, Black ..... per doz. 10.50

TORONTO, ONT.

## CONCAVE DRAIN CLEANERS



### ADJUSTABLE

| | | | |
|---|---|---|---|
| No. **3**—Cast Steel Blade, 3 x 15 inch, with Malleable Iron Socket, made to Push or Pull | per doz. | 14.35 |
| " **4**— " " 4 x 15 " " " " " " " " | " | 14.35 |
| " **5**— " " 5 x 15 " " " " " " " " | " | 14.35 |
| " **6**— " " 6 x 15 " " " " " " " " | " | 14.35 |

# MOULDERS' SHOVELS




**D** Handle, Patent Plain Back.

No. **90**—**Jones'**, Solid Cast Steel, Polished ..... per doz. $16.50
" **91**—**Burns'**, " " " ..... " 15.00

## SAND SHOVELS




**D** Handle, Square Point.

No. **30**—**Jones'**, Solid Cast Steel Socket, No. 4, 13½ x 11 x 10½ inches, Half Polished ..... per doz. 13.80
" **32**— " " " " 5, 13½ x 11½ x 11 " " ..... " 14.30
" **33**— " " " " 6, 13⅝ x 12 x 11½ " " ..... " 14.80

## SCOOPS



### HOUSE FURNACE SCOOP

**D** Handle.

No **134**—**Jones'**, Solid Cast Steel Socket, No. 0, Half Polished ..... per doz. 12.20
Black, $0.10 net per dozen less.



### COAL OR GRAIN SCOOP

**D** Handle, Back Strap, Riveted.

No. **135**—**Jones'**, Cast Steel, No. 2, Polished ..... per doz. 14.50
" **136**— " " " " 4, " ..... " 15.50
" **137**— " " " " 6, " ..... " 16.50
No. **137**, Black, $0.25 net per dozen less.
" **139**— " " " " 8, Half Polished ..... " 17.20
" **140**— " " " "10, " ..... " 18.20
" **143**—**Ward's**, " " " 2, Polished ..... " 13.50
" **144**— " " " " 4, " ..... " 14.50
" **145**— " " " " 6, " ..... " 15.50
" **146**—**Leeds'**, **Steel**, " " 2, Half Polished ..... " 12.20
" **147**— " " " " 4, " ..... " 13.20

# SCOOPS

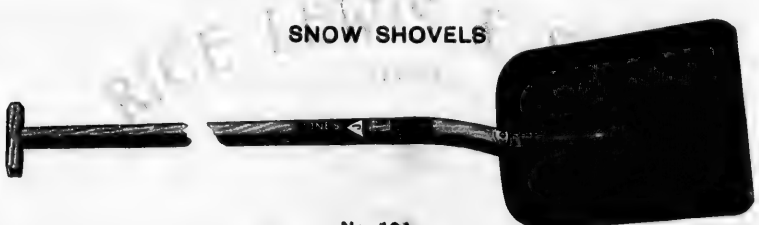


## SOCKET, COAL OR GRAIN SCOOP

D Handle.

No. **131**—Jones', Solid Cast Steel, No. 4, Half Polished..... per doz. $15.20
No. **131**, Black, $0.10 net per dozen less.
" **132**—Jones', Solid Cast Steel, No. 5, Half Polished..... " 15.70
No. **132**, Black, $0.10 net per dozen less.

## SNOW SHOVELS



No. **101**

No. **100**—Jones', Patent Socket, Best Cast Steel, L Handle, Black, 15 × 11 × 12 inch.....per doz. 5.40
" **101**— " " " " " T " " 15 × 11 × 12 " ..... " 5.55
" **1**—Blizzard, " " " " L " " 15 × 12 × 14 " ..... " 5.40
" **2**— " " " " L " " 12½ × 8½ × 9¾ " ..... " 5.10

## POST HOLE AUGERS



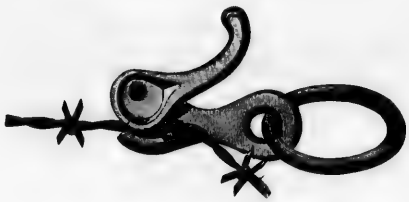


VAUGHAN'S

IWAN'S

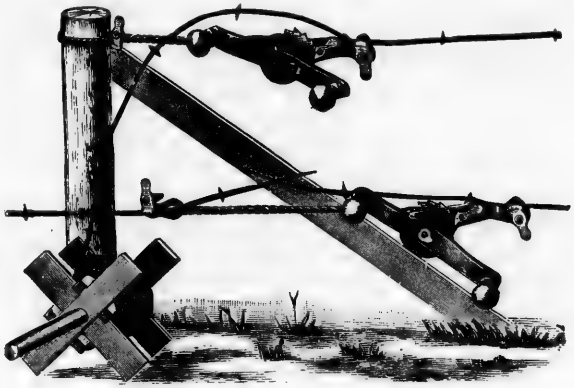
| Size | 7 | 8 | 9 | 10 inch. |
|---|---|---|---|---|
| Vaughan's.....per doz. | $12.50 | 12.50 | 12.50 | 19.45 |
| Iwan's..... " | ..... | 37.00 | 38.85 | 40.70 |

# WIRE STRETCHERS



**HERCULES**

**Hercules** Wire Stretchers ..... per doz. $3.35



**SAMSON**

**Samson**, Wire Stretchers, with Two Handles, Self Adjusting ..... per doz. 12.95

## REVOLVING CLOTHES REEL IRONS



No. **1**—Japanned, Round Base, 4½ inch Diameter, for 4 arms ..... per doz. 10.65
" **2**—Painted Black, " 5 " " " 4 " Braced ..... " 16.65
" **3**— " Square Base, 4 x 4 inch, " 4 " " ..... " 16.65

# WHEELBARROWS



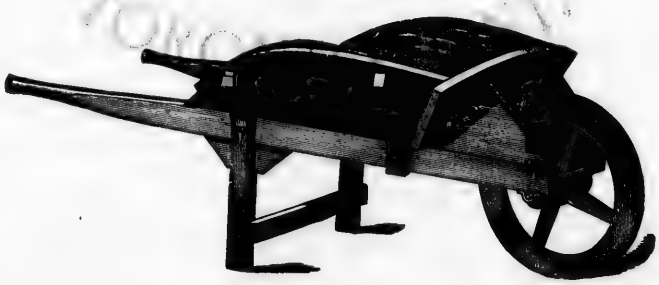
**RAILROAD OR NAVVY BARROW**

No. **1**—Steel Wheel, Bent Tray, and Bolted Throughout.....per doz. **$25.50**
" **2**—Wood " " " " ..... " **22.50**

**Knocks down for shipment, and easy to set up.**



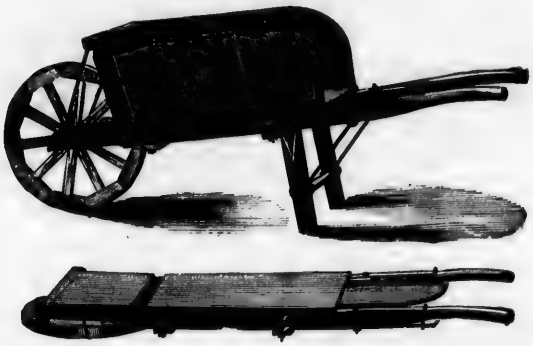
No. **3**—Pan-American Steel Tray Barrows.....per doz. **67.50**



**FARM BARROW—STRIPED AND VARNISHED**

No. **104**—Supplied With Steel Wheel only.....per doz. **46.45**

# WHEELBARROWS



FOLDING GARDEN BARROW

No. **105**—Wood Wheel, Knock Down, Painted and Varnished.....per doz. $29.65
" **106**—Steel " " " " ..... " 32.40

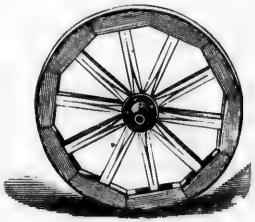


GENERAL PURPOSE BARROW

No. **107**—Steel Wheel, with Movable Sides, Painted and Varnished.....per doz. 43.20
" **108**— " " Solid " " " ..... " 45.35
" **109**— " " " " Extra Deep, Painted and Varnished ..... " 47.50

Nos. 108 and 109 have End Board.

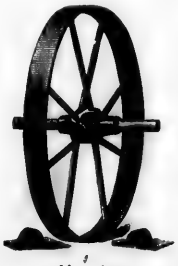
## WHEELBARROW WHEELS



No. 11



No. 12



No. 13

No. **11**—Jacobs' Patent Wooden Wheel, Diam. 17 inches, Tire 1⅛ x $\frac{5}{16}$ inch, Hub 6½ inches Long.....per doz. 10.00
" **12**—McGill's Patent Steel " " 17 " " 1¼ x ¼ " " 6½ " " ..... " 12.75
" **13**—Heavy Steel " " 20 " " 2 x ¼ " Spokes $\frac{7}{16}$ inch Diam., Axles 13½ inches Long, ¾ inch Diam .....per doz. 17.50

# TUBULAR STEEL WHEELBARROWS



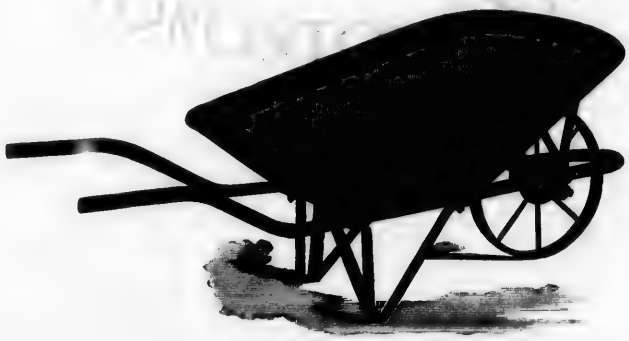
DIRT BARROW

No. **4**—Tray 15 Guage Steel, Weight of Barrow 70 lbs., Capacity 8 cubic feet ..... each $10.75
" **5**— " 14 " " 78 lbs., " 4 " ..... " 13.50



COAL BARROW

No. **7**—Tray 14 Guage Steel, Weight of Barrow 88 lbs., Capacity 4 cubic feet..... each 14.25



COAL AND COKE BARROW

No. **10**—Tray 13 Guage Steel, Weight of Barrow 109 lbs., Capacity 6 cubic feet ..... each 20.00

# STEEL DRAG SCRAPERS



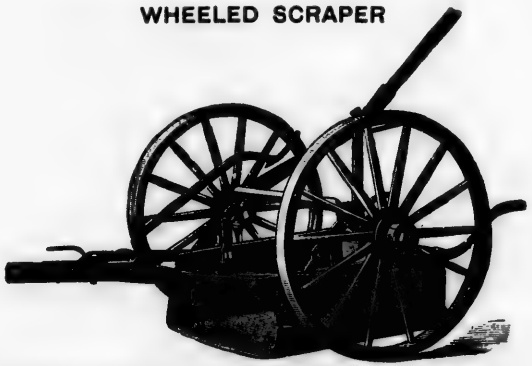
No. **30**—Contains about 5 Cubic Feet of Earth, Weight about 70 lbs ..... each **$7.25**



No. **31**—Contains about 7 Cubic Feet of Earth, Weight about 135 lbs..... ..... each **9.00**
" **32**— " **6** " " " " **120** " ..... " **8.10**

Made of Solid Sheet Steel, Pressed into Shape.

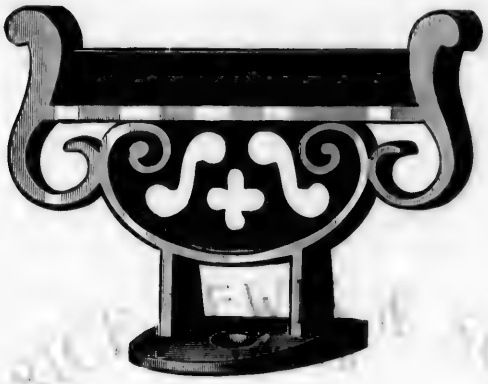
## WHEELED SCRAPER



No. **4**—Self Loading and Dumping Cart, carries 11 Cubic Feet of Earth ..... each **54.00**
" **5**— " " " " " **15** " " ..... ..... " **63.00**

With Latest Improved Irons and Sand Proof Boxing, No. 4 Weighs about 450 lbs., No. 5, 600 lbs.

# FOOT SCRAPERS



No. 6. Half size cut.

No. 6—Japanned ..... per doz. $1.80

Half-dozen in box.

## VENTILATING AIR BRICK

With Sliding Plate.



| | | |
|---|---|---|
| 2¾ x 8½ inch, With Slide | per doz. | $4.00 |
| 5½ x 8½ " " | " | 7.20 |
| 2¾ x 8½ " Without Slide | " | 3.00 |
| 5½ x 8½ " " | " | 4.80 |

## CAST IRON STAIR PLATES

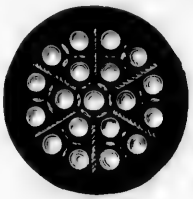
To Screw to Wood Steps.



| | |
|---|---|
| No. 70—16½ x 8 inch, With Round Nose for Lapping over ..... each | 0.60 |
| " 71—33½ x 7½ inch, Flat ..... " | 1.10 |

## VAULT LIGHT GRATINGS

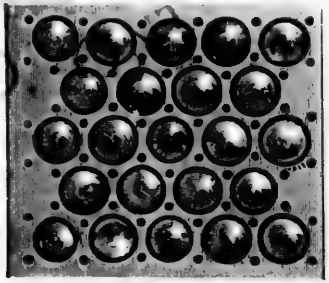
For Areas, Roofs and Floors.



No. 333

CIRCULAR

| Diameter | 18 | 20 | 24 inch. |
|---|---|---|---|
| No. 333—Each | $7.20 | 10.80 | 18.00 |



No. 334

SQUARE

No. 334—Per Square Foot ..... 4.80

## LIGNUM-VITÆ

Kept in Stock in Sticks 4 to 10 inches in Diameter ..... per lb. 0.10

# STORE SEATS



No. 50



No. 55

No. **50**—To Fasten to Side of Counter, Seat and Bracket Folds Close to Counter, Complete with Bracket ..... each $4.20
" **55**—To Fasten to Floor, with Swivel Seat ..... " 1.60

## REGISTERING TURNSTILES

For Exhibition Purposes.



**Registering Turnstiles**, Complete with Lock, Indicators and Cast Iron Cash Drawer ..... ..... each 144.00

# ENAMELLED SIGNS




### OVAL

White Ground, Blue Letters, Tipped, Hollowed.

| | | |
|---|---|---|
| Push, 2 x 3 inch | each | $0.50 |
| Pull, 2 x 3 " | " | 0.50 |




### OBLONG

White Ground, Blue Letters, Tipped.

| | | |
|---|---|---|
| Push, 3 x 1½ inch | each | $0.40 |
| Pull, 3 x 1½ " | " | 0.40 |




### OBLONG, OVAL ENDS

White Ground, Blue Letters, Lined and Tipped, Hollowed.

| | | |
|---|---|---|
| No Admittance | Office | Men |
| Lavatory | Private | Women |
| Ladies | Refreshments | Exit |
| Gentlemen | Fresh To-Day | Please Shut the Gate |
| No Road | Fire Escape | |

| | | |
|---|---|---|
| Size, 10 x 2½ inch | each | $0.50 |
| No Admittance, size 14 x 3 inch | " | 0.90 |




### OBLONG, FIGURED ENDS

White Ground, Blue Letters, Lined and Tipped.

| | |
|---|---|
| Smoking Room | Private Office |
| Dining Room | Ladies' Toilet |
| Waiting Room | Men's Toilet |
| Baggage Room | General Waiting Room |
| Men's Waiting Room | Lunch Room |
| Ladies' Waiting Room | Agent's Office |
| Telegraph Office | No Admittance |
| Ticket Office | Freight Office |

| | | |
|---|---|---|
| Size, 23 x 3½ inch | each | $0.80 |




### OBLONG, SQUARE ENDS

White Ground, Blue Letters, Lined and Tipped.

| | |
|---|---|
| Stick No Bills | Furnished Apartments |
| Smoking Prohibited | Please Shut the Door |

| | | |
|---|---|---|
| Size, 18 x 3½ inch | each | 0.70 |

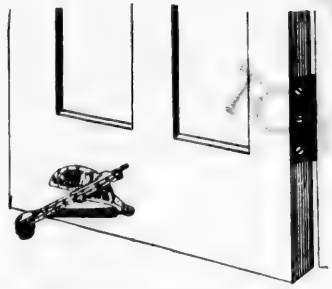
### PERPENDICULAR, SQUARE ENDS

White Ground, Blue Letters, Lined and Tipped.

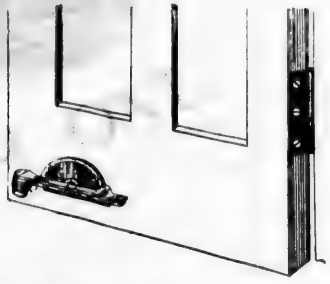
| Push | Pull | | |
|---|---|---|---|
| Size, 12 x 3 inch, Letters Horizontal or Perpendicular | | each | 0.80 |

## LE PAGE'S PATENT LOWER DOOR CHECKS

**For Holding Doors Open.**



To fasten the door at any point, push down front end of Holder with your foot as above.



To release the door, push down back end of the Holder until you bring it to a horizontal position as above.

### FOR DWELLING HOUSES AND LIGHT DOORS

| | Per doz. |
|---|---|
| No. 1—Japanned | $4.20 |
| " 2—Old Copper Finish | 6.00 |
| " 3—Bronze-Plated | 6.00 |
| " 4—Solid Bronze | 9.00 |

### FOR BANKS, HOTELS AND MEDIUM DOORS

| | Per doz. |
|---|---|
| No. 5—Japanned | $6.00 |
| " 6—Old Copper Finish | 9.00 |
| " 7—Bronze-Plated | 9.00 |
| " 8—Solid Bronze | 12.00 |

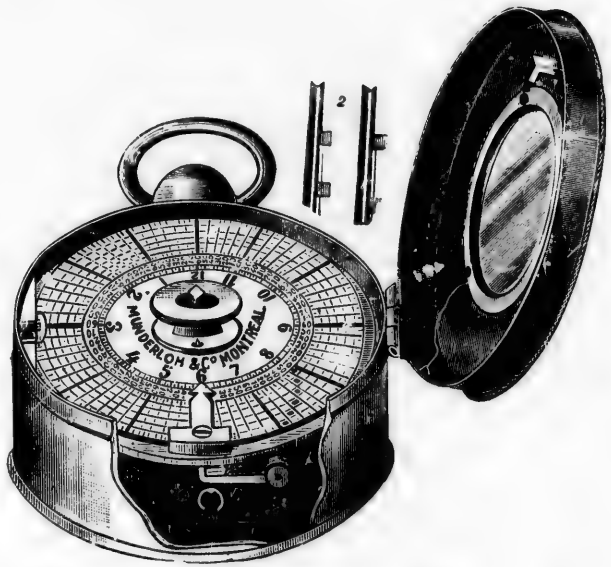
### FOR EXTRA HEAVY DOORS

| | Per doz. |
|---|---|
| No. 9—Japanned | $12.00 |
| " 10—Bronze | 18.00 |
| " 11—Old Copper Finish | 18.00 |

DIRECTIONS FOR APPLYING.—Numbers 1 to 4, 2½ inches, Nos. 5 to 8, 2½ inches, Nos. 9 to 11, 3 inches from lower edge of check to floor. If to hold on carpet, ¼ inch lower for all sizes.

# WATCHMAN CONTROL CLOCKS

MYER'S

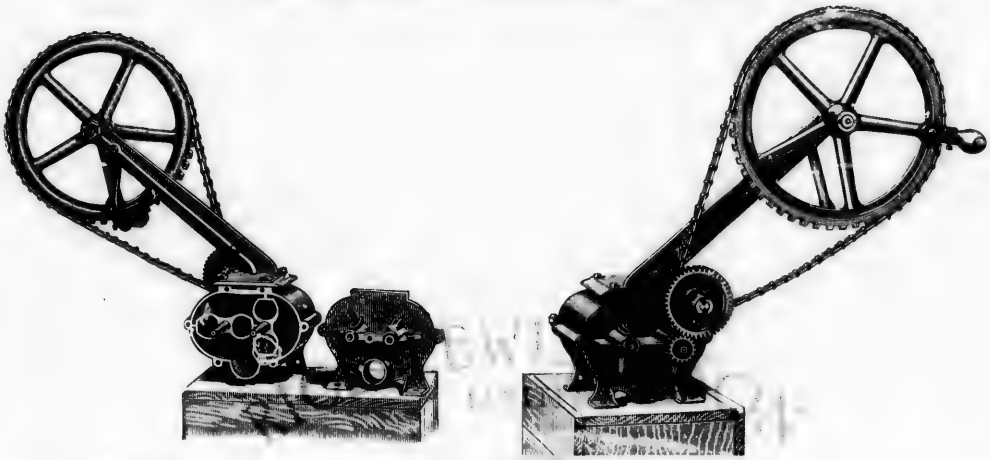





Clock, with Latest Improvements, including 6 Keys, 400 Dials, and Leather Pouch ..... each $52.50

The newest improvement in the Clock is a small knife attached to the lid, which, on closing, makes an incision in the paper dial, thus showing how often the Clock has been closed, and prevents it from being tampered with without being detected. The Clock is portable, and of simple construction, at the same time a perfect time piece, and of such durable workmanship that it will last a lifetime. Full instructions with each Clock.

# ROOT'S ACME HAND BLOWER



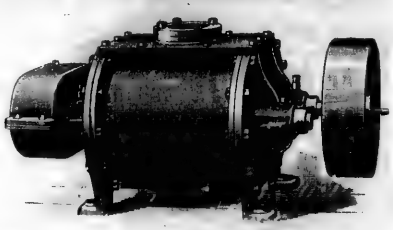
CUT SHOWS REVOLVERS EXPOSED TO VIEW

No. 3

No. 3—Suitable for Ordinary up to Largest Class Fire, gives a blast equal to 60 inch Bellows .....each $25.50

ADVANTAGES.—The Revolvers are enclosed in an iron case, bored out perfectly true, and are dressed so that they keep up continuous contact with each other during the entire revolution, forcing forward and utilizing all the air taken into the case. The shafting is steel, the bearings phosphor bronze, the gears are cut. The Blower occupies a space less than a foot square of floor surface.

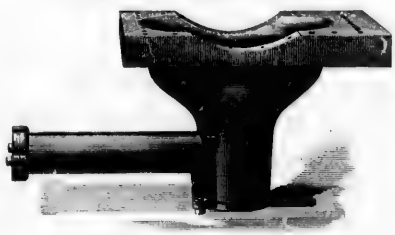
## ROOT'S ACME POWER BLOWER



| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| No. 3 | —Capacity per Revolution, | 172 | cubic inches, | Outlet | 1½ | inches, | Weight | 87 | lbs.....each $24.00 |
| " 3½ | — " " | 325 | " | " | 2 | " | " | 98 | " ..... " 45.00 |
| " 4 | — " " | 648 | " | " | 3 | " | " | 188 | " ..... " 90.00 |

DIMENSIONS.—No. 3, 10 x 10½ x 16 inches; No. 3½, 10 x 14 x 18 inches; No. 4, 12 x 16 x 26 inches. No. 4 is made with top or side discharge. Pulley on No. 3, 5½ x 1¼ inches; pulley on No. 3½, 8 x 2 inches; pulley on No. 4, 10 x 3 inches.

## FIRE BED AND TUYERE



For use in Brick Forge.

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| No. 3 | —14½ | inches square, | 11½ | inches deep, | weight | 63 | lbs.....each | $6.50 |
| " 4 | —18 | " | 12 | " | " | 80 | " ..... " | 7.50 |

# BAR IRON AND STEEL

## DOMINION SCHEDULE OF EXTRAS IN BAR IRON AND STEEL, ADOPTED JULY 7th, 1897.

Extras per 100 lbs.

| BARS. | 3/16 | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 9/16 | 5/8 | 11/16 | 3/4 | 7/8 | 1 | 1 1/4 in. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Small, Round and Square | $1.25 | 0.60 | 0.45 | 0.35 | 0.25 | 0.15 | 0.15 | 0.05 | 0.05 | .... | .... | .... | .... |
| " Flat ½ inch | 1.00 | 0.75 | 0.75 | 0.75 | 0.75 | .... | .... | .... | .... | .... | .... | .... | .... |
| " " ⅝ " | 0.75 | 0.60 | 0.60 | 0.45 | 0.45 | 0.45 | .... | .... | .... | .... | .... | .... | .... |
| " " ½ " | 0.60 | 0.45 | 0.45 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | .... | .... | .... | .... | .... |
| " " ⅜ " | 0.45 | 0.35 | 0.35 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | .... | .... | .... |
| " " 1 to 6 " | 0.30 | 0.15 | 0.15 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Oval | .... | .... | .... | 1.00 | 1.00 | 0.80 | 0.80 | 0.60 | 0.60 | 0.45 | 0.30 | 0.30 | 0.30 |
| Half Oval and Half Round | .... | .... | .... | 1.40 | 1.40 | 1.20 | 1.20 | 0.80 | 0.80 | 0.60 | 0.40 | 0.40 | 0.40 |

### LARGE ROUND AND SQUARE

Extras per 100 lbs.

| | | | | | |
|---|---|---|---|---|---|
| 2⅛ to 2⅞ inch | $0.05 | 4 inch | $0.60 | 5½ inch | $1.50 |
| 3 inch | 0.20 | 4¼ " | 0.75 | 6 " | 2.00 |
| 3¼ " | 0.30 | 4½ " | 0.90 | 6½ " | 2.50 |
| 3½ " | 0.40 | 5 " | 1.20 | 7 " | 3.00 |
| 3¾ " | 0.50 | | | | |

### LARGE FLAT

Extras per 100 lbs.

| INCHES. | 3 to 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|
| ¼ and 5/16 | $0.15 | 0.40 | 0.50 | 0.60 | 0.70 | 0.80 | 0.90 |
| ⅜ to 1 | .... | 0.25 | 0.40 | 0.50 | 0.60 | 0.70 | 0.80 |
| 1⅛ to 2 | 0.15 | 0.40 | 0.50 | 0.60 | 0.70 | 0.80 | 0.90 |

### CUTTING TO SPECIFIC LENGTHS

When Rolling $0.10 per 100 lbs. extra. Lengths over 20 feet special.

### REGULAR BASE SIZES, NOT EXTRAS

Round or Square Iron ..... ¼ to 2 inches.
Flat Iron ..... ¼ to 4 inches × 1/16 to 1½ "
" ..... 4½ to 6 " × ⅛ to 1 "

Best refined Horse Shoe Iron $0.25 on corresponding price of common iron.

### EXTRAS ON BAND IRON

No. 10 Gauge.

| Size | ½ | ⅝ | ¾ | ⅞ | 1 to 6 inch. |
|---|---|---|---|---|---|
| Per 100 lbs. | $2.00 | 1.30 | 0.70 | 0.50 | 0.30 |

Over 7 inches wide at special price but not less than $0.60 per 100 lbs.

No. 12 Gauge.

| Size | 3/8 | ½ | ⅝ | ¾ | ⅞ | 1 | 1⅛ | 1¼ | 1½ | 1¾ | 2 inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| per 100 lbs. | $.... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |

### HOOP STEEL

| Size | ½ x 22 | ½ x 24 | ⅝ x 20 | ⅝ x 22 | ¾ x 21 | ⅞ x 19 | 1 to 1¼ | 1½ to 3 inch. |
|---|---|---|---|---|---|---|---|---|
| Per 100 lbs. | $.... | .... | .... | .... | .... | .... | .... | .... |

### DRAWN RODS

| Size | 5/16 | 7/32 | ¼ | 9/32 | 5/16 | ⅜ | 7/16 | ½ inch |
|---|---|---|---|---|---|---|---|---|
| Per 100 lbs. | $.... | .... | .... | .... | .... | .... | .... | .... |

### LOWMOOR IRON

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Round or Square | ¼ | 5/16 | ⅜ | 7/16 | ½ | 9/16 | ⅝ | ¾ | ⅞ | 1 | inch. |
| Per 100 lbs. | $.... | .... | .... | .... | .... | .... | .... | .... | .... | .... | |
| Round or Square | 1⅛ | 1¼ | 1⅜ | 1½ | 1¾ | 2 | 2¼ | 2½ | 2¾ | 3 | inch. |
| Per 100 lbs. | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | |
| Flat | ¼ x ⅞ | 1 | 1⅛ | 1¼ | 1½ | 1⅝ | 2 | ⅝ x 1 | 1⅛ | 1¼ | 1½ |
| Per 100 lbs. | | | | | | | | | | | $... |
| Flat | ⅓ x ⅞ | 1 | 1⅛ | 1¼ | 1½ | 1⅝ | 2 | 2¼ | 2½ | 3 | inch. |
| Per 100 lbs. | | | | | | | | | | | $... |
| Flat | ¾ x 1½ | 1⅝ | 2 | 2¼ | 2½ | 3 | 3½ | 4 | ⅞ x 1½ | 1⅝ | 2 |
| Per 100 lbs. | | | | | | | | | | | $... |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Flat | 1⅛ | 1¼ | 1½ | 1¾ | 2 | 2¼ | 2½ | 3 | inch. |
| Per 100 lbs. | | | | | | | | | $... |
| Flat | 1 x 2 | 2¼ | 2½ | 3 | 3½ | 4 | inch. |
| Per 100 lbs. | | | | | | | $... |

### SWEDES AND NORWAY IRON

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Round or Square | ¼ | 5/16 | ⅜ | 7/16 | ½ | 9/16 | ⅝ | ¾ | ⅞ | 1 | 1⅛ | 1¼ | 1½ inch. |
| Per 100 lbs. | | | | | | | | | | | | | $... |
| Flat | ⅜ x 1 | 1⅛ | 1¼ | 1½ | ½ x ¾ | ⅞ | 1 | 1¼ | 1½ inch. |
| Per 100 lbs. | | | | | | | | | | $... |

# ANGLE STEEL

Equal Sides.

| Size | ⅛ x ¾ | ⅞ | 1 | ⅝ x 1 | 1⅛ | 1¼ | 1½ | ¼ x 1¼ | 1½ | 1¾ | 2 | 2¼ | 2½ | 3 inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Price per 100 lbs. $ | | | | | | | | | | | | | | |

| Size | ⅝ x 2 | 2¼ | 2½ | 3 | 3½ | 4 | ½ x 3 | 3½ | 4 | 5 " |
|---|---|---|---|---|---|---|---|---|---|---|
| Price per 100 lbs. $ | | | | | | | | | | |

## TEE STEEL

| Size | 1 x 1 x ⅛ | 1¼ x 1¼ x ⅝ | 1½ x 1¼ x ⅝ | 2 x 1½ x ¼ | 2½ x 2½ x ⅝ " |
|---|---|---|---|---|---|
| Price per 100 lbs. $ | | | | | |

| Size | 3 x 2½ x ⅝ | 3½ x 3 x ⅝ | 3½ x 3 x ½ | 4 x 3 x ⅝ | 5 x 3 x ⅝ " |
|---|---|---|---|---|---|
| Price per 100 lbs. $ | | | | | |

## SLEIGH SHOE STEEL

| Size | ⅜ x ⅞ | *1 | *1⅛ | *1¼ | *1½ | *1¾ | *2 | *2¼ | *2½ | *3 | *3½ | *4 | 7/16 x ⅞ | *1 " |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Price per 100 lbs. $ | | | | | | | | | | | | | | |

| Size | ½ x *1 | *1¼ | *1½ | *1¾ | *2 | *2¼ | *2½ | *3 | *3½ | *4 " |
|---|---|---|---|---|---|---|---|---|---|---|
| Price per 100 lbs. $ | | | | | | | | | | |

| Size | ⅝ x 1½ | 1⅝ | *1¾ | *2 | 2½ | 3 | ⅝ x 1½ | *1¾ | *2 | 3 | 3½ | 4 | 1 x 3 | 3½ | 4 " |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Price per 100 lbs. $ | | | | | | | | | | | | | | | |

* Stocked in 9 and 16 feet lengths, other sizes in 16 feet lengths only.

## TOE CALK STEEL

| Size | ¼ x ⅝ | ½ | 5/16 x 7/16 | ½ | ⅜ x ½ | ⅝ | ¾ | ⅞ | 1 | 7/16 x ¾ | ⅞ | 1 | ½ x ¼ | ⅞ | 1 " |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Price per 100 lbs. $ | | | | | | | | | | | | | | | |

## TIRE STEEL, ROUND EDGE

| Size | ⅛ x ¾ | 5/16 x ¾ | ⅞ | 1 | ¼ x ⅞ | 1 | 1⅛ | 1¼ | 5/16 x 1 | 1⅛ | 1¼ | 1½ " |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Price per 100 lbs. $ | | | | | | | | | | | | |

| Size | ⅜ x 1¼ | 1⅜ | 1¼ | 7/16 x 1¼ | 1⅜ | 1½ | ½ x 1½ | 1⅝ | 1½ | 1⅝ | 1¾ | 2 | ⅝ x 1¾ | 2 " |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Price per 100 lbs. $ | | | | | | | | | | | | | | |

## SPRING STEEL

| Size | 1/16 x ½ to ¾ | 1/16 x ⅞ to 1 | ⅛ x 1 to 1½ | 3/16 x ¾ to ⅞ | 3/16 x 1 to 1½ " |
|---|---|---|---|---|---|
| Price per 100 lbs. $ | | | | | |

| Size | ¼ x ⅝ to ¾ | ¼ x ⅞ to 1⅛ | ¼ x 1¼ inch and larger. |
|---|---|---|---|
| Price per 100 lbs. $ | | | |

## ROUND SPRING STEEL

| Size | ⅛ | 5/16 | ⅜ | 7/16 | ½ | 9/16 | ⅝ inch. |
|---|---|---|---|---|---|---|---|
| Price per 100 lbs. $ | | | | | | | |

## CULTIVATOR STEEL

| Size | ⅛ x 3 | 4 | 5 | 6 | 3/16 x 5 | 6 | 7 | 8 inch. |
|---|---|---|---|---|---|---|---|---|
| Price per 100 lbs. $ | | | | | | | | |

## HARROW TOOTH STEEL

| Size, Square | 9/16 | ⅝ | ¾ inch. |
|---|---|---|---|
| Price per 100 lbs. $ | | | |

## MACHINERY STEEL

### ROUND

| Size | 3/16 | ¼ | 5/16 | ⅜ | 7/16 | ½ | 9/16 | ⅝ | 11/16 | ¾ | 13/16 | ⅞ | 1 | 1 1/16 | 1⅛ | 1¼ | 1⅜ | 1½ | 1⅝ | 1¾ inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Price per 100 lbs. $ | | | | | | | | | | | | | | | | | | | | |

| Size | 1⅞ | 2 | 2⅛ | 2¼ | 2⅜ | 2½ | 2¾ | 3 | 3¼ | 3½ | 3¾ | 4 | 4¼ | 4½ | 4¾ | 5 | 5½ | 6 | 6½ | 7 inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Price per 100 lbs. $ | | | | | | | | | | | | | | | | | | | | |

### SQUARE

| Size | ⅜ | 7/16 | ½ | 9/16 | ⅝ | ¾ | ⅞ | 1 | 1⅛ | 1¼ | 1⅜ | 1½ | 1⅝ | 1¾ | 2 inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Price per 100 lbs. $ | | | | | | | | | | | | | | | |

## SHEET CAST STEEL

Sheets 12 inches wide, 6 feet long.

| Gauge | 8 to 20 | 21 to 26 | 27 to 30 |
|---|---|---|---|
| Price per 100 lbs. $ | | | |

## SHEET DECARBONIZED STEEL

Sheets 12 inches wide, 6 feet long.

| Gauge | 8 to 20 |
|---|---|
| Price per 100 lbs. $ | |

## BLACK SHEET IRON OR STEEL

| Gauge | 10 and 12 | 14 | 17 | 18 | 19 | 20 | 22 | 24 | 26 | 28 |
|---|---|---|---|---|---|---|---|---|---|---|
| Price per 100 lbs. $ | | | | | | | | | | |

## STEEL PLATE

| Thickness | 5/16 | ¼ to ⅝ inch. |
|---|---|---|
| Price per 100 lbs. $ | | |

## CIRCULAR STEEL HEADS

| Size | ¼ to ½ inch. |
|---|---|
| Price per 100 lbs. $ | |

# CAST STEEL

Thomas Firths & Sons ..... per lb. $
Park's "Black Diamond" Brand ..... " ....
" "Silver" Brand ..... " ....

## FIRTHS' TWIST DRILL CAST STEEL

In 24 inch Lengths.

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Size..... | 1/4 | 17/64 | 9/32 | 19/64 | 5/16 | 21/64 | 11/32 | 23/64 | 3/8 | 25/64 | 13/32 | 27/64 | 7/16 | 29/64 | 15/32 | 31/64 |
| Per lb..... $ | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Size..... | 1/2 | 17/32 | 9/16 | 19/32 | 5/8 | 21/32 | 11/16 | 23/32 | 3/4 | 25/32 | 13/16 | 27/32 | 7/8 | 29/32 | 15/16 | 1 |
| Per lb..... $ | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Size..... | 1 1/16 | 1 1/8 | 1 3/16 | 1 1/4 | 1 5/16 | 1 3/8 | 1 7/16 | 1 1/2 | | | | | | | | |
| Per lb..... $ | | | | | | | | | | | | | | | | |

## R MUSHETS SPECIAL STEEL

| | | | | | | | | | | | | | | | | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Square..... | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1 1/8 | 1 1/4 | 1 1/2 | | | | |
| Per lb..... $ | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Flat..... | 1/2 x 3/4 | 7/8 | 1 | 1 1/8 | 1 1/4 | 1 1/2 | 5/8 x 1 1/8 | 1 1/4 | 1 1/2 | 1 3/4 | | | | | | |
| Per lb..... $ | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Flat..... | 3/4 x 1 1/4 | 1 1/2 | 1 3/4 | 2 | 7/8 x 1 1/2 | 1 3/4 | 1 x 2 | | | | | | | | | |
| Per lb..... $ | | | | | | | | | | | | | | | | |

DIRECTIONS for treating "R Mushets Special Steel": Heat the Steel before cutting it into lengths as it cannot be cut when cold, it should be worked at fully the same heat as ordinary Lathe Tool Steel. The Tool should be heated at least half its length, gradually but thoroughly, so as to be quite ductile under the hammer, and should be forged and finished off at a good heat, avoid forging it too cold, when forged and shaped the tool should be cooled in the air only, remember that the steel while hot must be kept from water.

## TRAM RAILS

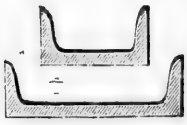
For Saw Mill and other Yards.



T Rails, 12 lbs. per yard ..... per 100 lbs. $

Larger sizes supplied to order.

## STEEL CHANNELS AND BEAMS



CHANNEL



BEAM

### STOCK SIZES, WEIGHTS AND LENGTHS

#### CHANNELS

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Size..... | 5 x 1 3/4 | 6 x 2 1/8 | 7 x 2 1/8 | 8 x 2 3/4 | 9 x 2 1/2 | 10 x 2 1/2 | 12 x 2 7/8 inch. |
| Weight per foot.. | 6 1/2 | 13 | 12 1/4 | 13 3/4 | 15 | 15 | 20 1/4 lbs. |
| Length..... | 36 | 36 | 36 | 36 | 36 | 36 | 36 feet. |
| Per 100 lbs. ..... | | | | | | | $ |

#### BEAMS

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Size..... | 4 x 2 7/8 | 5 x 3 | 6 x 3 3/8 | 7 x 3 5/8 | 8 x 4 | 9 x 4 | 10 x 4 3/4 | 10 x 4 3/4 | 12 x 5 | 12 x 5 | 12 x 5 | 12 x 5 inch. |
| Weight per foot.. | 7 1/2 | 12 1/4 | 12 1/4 | 15 | 18 | 21 | 25 | 30 | 31 1/2 | 31 1/2 | 31 1/2 | 31 1/2 lbs. |
| Length..... | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 20 | 22 | 24 | 28 feet. |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Size..... | 12 x 5 | 12 x 5 | 12 x 6 | 12 x 6 | 12 x 6 | 12 x 6 | 12 x 6 | 15 x 5 1/2 | 15 x 5 1/2 | 15 x 5 1/2 | 15 x 5 1/2 inch. |
| Weight per foot.. | 31 1/2 | 31 1/2 | 40 | 43 1/2 | 40 | 40 | 40 | 42 | 42 | 42 | 42 lbs. |
| Length..... | 32 | 36 | 20 | 24 | 28 | 32 | 36 | 20 | 24 | 28 | 32 feet. |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Size..... | 15 x 5 1/2 | 15 x 5 1/2 | 15 x 5 3/4 | 15 x 5 3/4 | 15 x 5 3/4 | 15 x 5 3/4 | 15 x 5 3/4 | 15 x 5 3/4 inch. |
| Weight per foot.. | 42 | 42 | 50 | 50 | 50 | 50 | 50 | 50 lbs. |
| Length..... | 32 | 36 | 20 | 24 | 28 | 32 | 36 | 36 feet. |
| Per 100 lbs..... | | | | | | | | $ |

# WEIGHTS AND TABLES

## WEIGHT OF HALF ROUND AND OVAL IRON

| Size | ⅜ x ⅜16 | 7/16 x 7/32 | ½ x ¼ | ⅝ x 5/16 | ¾ x ⅜ | ⅞ x 7/16 | 1 x ½ | 1⅛ x 9/16 | 1¼ x ⅝ | 1½ x ¾ |
|---|---|---|---|---|---|---|---|---|---|---|
| Weight per lineal foot | .186 | .253 | .331 | .517 | .744 | 1. | 1.32 | 1.62 | 2. | 3. lbs. |

## WEIGHT OF HALF OVAL IRON

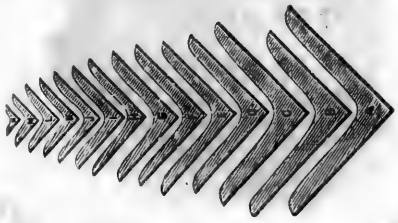
| Size | ⅜ x 3/32 | 7/16 x 7/64 | ½ x ⅛ | ⅝ x 5/32 | ¾ x 3/16 | ⅞ x 7/32 | 1 x ¼ | 1⅛ x 9/32 | 1¼ x 5/16 | 1½ x ⅜ |
|---|---|---|---|---|---|---|---|---|---|---|
| Weight per lineal foot | .093 | .13 | .17 | .26 | .37 | .50 | .66 | .81 | 1. | 1.46 lbs. |

## STEEL HOOPS AND BANDS

Approximate weights in lbs. per lineal foot.

| WIDTH. | ½ | ⅝ | ¾ | ⅞ | 1 | 1⅛ | 1¼ | 1½ | 1¾ | 2 | 2¼ | 2½ | 2¾ | 3 | 3½ | 4 | 4½ | 5 | 6 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B. W. G. | | | | | | | | | | | | | | | | | | | |
| 10 | .227 | .284 | .341 | .398 | .455 | .512 | .569 | .683 | .797 | .912 | 1.02 | 1.13 | 1.25 | 1.30 | 1.59 | 1.82 | 2.05 | 2.27 | 2.73 |
| 12 | .185 | .231 | .278 | .324 | .370 | .416 | .463 | .555 | .648 | .741 | .833 | .926 | 1.01 | 1.11 | 1 29 | 1.48 | 1.66 | 1.85 | 2.22 |
| 14 | .141 | .176 | .211 | .246 | .282 | .317 | .352 | .423 | .493 | .564 | .635 | .705 | .776 | .846 | .987 | 1.12 | 1.26 | 1.41 | 1.69 |
| 15 | .122 | .153 | .183 | .214 | .244 | .275 | .306 | .367 | .428 | .489 | .550 | .612 | .673 | .734 | .856 | .979 | 1.10 | 1.22 | 1.46 |
| 16 | .110 | .138 | .165 | .193 | .221 | .248 | .276 | .331 | .386 | .442 | .497 | .552 | .607 | .663 | .773 | .884 | .494 | 1.10 | 1.32 |
| 17 | .098 | .123 | .147 | .172 | .197 | .221 | .246 | .295 | .345 | .394 | .443 | .493 | .542 | .591 | .690 | .788 | .887 | .986 | 1.18 |
| 18 | .083 | .104 | .125 | .145 | .166 | .187 | .208 | .249 | .291 | .333 | .374 | .416 | .458 | .499 | .583 | .666 | .749 | .833 | .999 |
| 19 | .071 | .089 | .107 | .125 | .142 | .160 | .178 | .214 | .249 | .285 | .321 | .357 | .392 | .428 | .499 | .571 | .642 | .714 | .856 |
| 20 | .059 | .074 | .089 | .104 | .119 | .133 | .148 | .178 | .208 | .238 | .267 | .297 | .327 | .357 | .416 | .476 | .535 | .595 | .714 |
| 22 | .047 | .059 | .071 | .083 | .095 | .107 | .119 | .142 | .166 | .190 | .214 | .238 | .261 | .285 | .333 | .380 | .428 | .476 | .571 |
| 24 | .037 | .046 | .056 | .065 | .074 | .084 | .093 | .112 | .130 | .149 | .168 | .187 | .205 | .224 | .261 | .299 | .336 | .374 | .448 |

## WEIGHT OF ANGLE STEEL, EQUAL SIDES



Weight per Foot in Pounds.

| Size | ¾ | ⅞ | 1 | 1¼ | 1½ | 1¾ | 2 | 2¼ | 2½ | 2¾ | 3 | 3½ | 4 | 5 | 6 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ⅛ | 0.6 | 0.7 | 0.8 | 1.0 | 1.2 | ... | . | ... | ... | ... | ... | .... | .... | .... | .... | |
| 3/16 | 0.8 | 1.0 | 1.2 | 1.5 | 1.8 | 2.1 | 2.5 | 2.8 | 3.1 | ... | ... | .... | .... | .... | .... | |
| ¼ | ... | ... | 1.5 | 1.9 | 2.4 | 2.8 | 3.2 | 3.7 | 4.1 | 4.5 | 4.9 | .... | .... | .... | .... | |
| 5/16 | .. | ... | ... | 2.4 | 2.9 | 3.4 | 4.0 | 4.5 | 5.0 | 5.5 | 6.1 | 7.1 | 8.2 | .... | .... | |
| ⅜ | ... | ... | ... | ... | 3.4 | 4.0 | 4.7 | 5.3 | 5.9 | 6.6 | 7.2 | 8.5 | 9.8 | 12.3 | 14.8 | |
| 7/16 | ... | ... | ... | ... | ... | 4.6 | 5.3 | 6.1 | 6.8 | 7.6 | 8.3 | 9.8 | 11.3 | 14.3 | 17.2 | |
| ½ | ... | ... | ... | ... | .. | ... | ... | 6.8 | 7.7 | 8.5 | 9.4 | 11.1 | 12.8 | 16.2 | 19.6 | |

## WEIGHT OF 100 FEET IRON, BRASS, STEEL AND COPPER WIRE, IN POUNDS

| Gauge.....No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Iron | 23.85 | 21.37 | 17.78 | 15. | 12.82 | 10.92 | 8.58 | 7.21 | 5.80 | 4.75 | 3.81 | 3.14 | 2.39 | 1.82 | 1.37 | 1.12 | .89 | .63 | .47 | .32 |
| Steel | 24.67 | 21.57 | 17.04 | 15.15 | 12.95 | 11. | 8.66 | 7.28 | 5.85 | 4.80 | 3.85 | 3.17 | 2.41 | 1.84 | 1.39 | 1.13 | .90 | .61 | .47 | .33 |
| Copper | 27.24 | 24.41 | 20.3 | 17.15 | 14.65 | 12.47 | 9.80 | 8.24 | 6.63 | 5.43 | 4.35 | 3.59 | 2.73 | 2 08 | 1.57 | 1.28 | 1. | .73 | .53 | .37 |
| Brass | 25.73 | 23.06 | 19.18 | 16.19 | 13.84 | 11.78 | 9.26 | 7.78 | 6.26 | 5.13 | 4.11 | 3.40 | 2.58 | 1.96 | 1.48 | 1.21 | .96 | .69 | .50 | .35 |

# WEIGHT OF ROUND, SQUARE AND FLAT BAR IRON

| Rounds | ¼ | 5/16 | ⅜ | 7/16 | ½ | 9/16 | ⅝ | 11/16 | ¾ | 13/16 | ⅞ | 1 | 1⅛ | 1¼ | 1⅜ | 1½ | 1⅝ | 1¾ | 1⅞ | 2 | 2⅛ | 2¼ | 2½ | 2¾ | 3 | 3¼ | 3½ | 3¾ | 4 | 4¼ | 4½ | 4¾ | 5 | 5¼ | 5½ | 6 | in. dia. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 foot | .163 | .255 | .368 | .50 | .654 | .828 | 1.02 | 1.23 | 1.47 | 1.72 | 2. | 2.61 | 3.31 | 4. | 4.95 | 5.89 | 6.91 | 8. | 9.20 | 10. | 11.82 | 13.20 | 16.36 | 19.79 | 23.56 | 27.65 | 32. | 37. | 42. | 47. | 53. | 59. | 65. | 72. | 79. | 94. | lbs. |
| 16 feet | 2.66 | 4 | 6 | 8 | 10 | 13 | 16 | 20 | 24 | 28 | 32 | 42 | 53 | 65 | 79 | 94 | 110 | 128 | 147 | 167 | 185 | 212 | 260 | 317 | 377 | 442 | 513 | 589 | 670 | 756 | 848 | 945 | 1047 | 1155 | 1234 | 1508 | " |

| Square | ¼ | 5/16 | ⅜ | 7/16 | ½ | 9/16 | ⅝ | 11/16 | ¾ | 13/16 | ⅞ | 1 | 1⅛ | 1¼ | 1⅜ | 1½ | 1⅝ | 1¾ | 1⅞ | 2 | 2⅛ | 2¼ | 2½ | 2¾ | 3 | 3½ | 4 | in. square. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 foot | .208 | .325 | .468 | .638 | .832 | 1.05 | 1.30 | 1.57 | 1.87 | 2 | 2.55 | 3.33 | 4.21 | 5.20 | 6.30 | 7.50 | 8.80 | 10.20 | 11.71 | 13.33 | 15 | 16.87 | 21 | 25 | 30 | 40 | 53 | lbs. |
| 16 feet | 3 | 5 | 7 | 10 | 13 | 17 | 22 | 25 | 30 | 35 | 41 | 53 | 67 | 83 | 101 | 120 | 141 | 163 | 188 | 213 | 240 | 270 | 333 | 402 | 480 | 653 | 884 | " |

| | ¼ x 1 | 1⅛ | 1¼ | 1⅜ | 1½ | 1¾ | 2 | 2¼ | 2½ | 2¾ | 3 | 3¼ | 3½ | 3¾ | 4 | 4¼ | 4½ | 5 | 5½ | 6 | 6½ | 7 | 8 | 9 | 10 | 11 | 12 x ¼ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 foot | .833 | .94 | 1.04 | 1.14 | 1.25 | 1.45 | 1.66 | 1.87 | 2.08 | 2.30 | 2.50 | 2.71 | 2.91 | 3.13 | 3.33 | 3.54 | 3.75 | 4.17 | 4.58 | 5. | 5.41 | 5.82 | 6.66 | 7.50 | 8.34 | 9.16 | 10 lbs. |
| 16 feet | 13 | 15 | 16.66 | 18 | 20 | 23 | 27 | 30 | 33 | 36 | 40 | 43 | 46 | 50 | 54 | 57 | 60 | 66 | 72 | 80 | 86 | 92 | 108 | 120 | 132 | 144 | 160 | " |

| | 5/16 x 1 | 1⅛ | 1¼ | 1⅜ | 1½ | 1¾ | 2 | 2¼ | 2½ | 2¾ | 3 | 3¼ | 3½ | 3¾ | 4 | 4¼ | 4½ | 5 | 5½ | 6 | 6½ | 7 | 8 | 9 | 10 | 11 | 12 x 5/16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 foot | 1.04 | 1.17 | 1.30 | 1.43 | 1.56 | 1.82 | 2.01 | 2.34 | 2.60 | 2.86 | 3.12 | 3.38 | 3.64 | 3.90 | 4.16 | 4.42 | 4.68 | 5.29 | 5.72 | 6.26 | 6.76 | 7.28 | 8.32 | 9.36 | 10.58 | 11.44 | 12.52 lbs. |
| 16 feet | 16 | 18 | 21 | 23 | 25 | 30 | 33 | 37 | 42 | 45 | 50 | 54 | 60 | 63 | 66 | 71 | 74 | 82 | 90 | 100 | 108 | 120 | 132 | 148 | 164 | 180 | 200 | " |

| | ⅜ x 1 | 1⅛ | 1¼ | 1⅜ | 1½ | 1¾ | 2 | 2¼ | 2½ | 2¾ | 3 | 3¼ | 3½ | 3¾ | 4 | 4¼ | 4½ | 5 | 5½ | 6 | 6½ | 7 | 8 | 9 | 10 | 11 | 12 x ⅜ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 foot | 1.25 | 1.40 | 1.50 | 1.71 | 1.87 | 2.18 | 2.50 | 2.81 | 3.12 | 3.43 | 3.75 | 4.06 | 4.37 | 4.68 | 5 | 5.31 | 5.62 | 6.25 | 6.87 | 7.50 | 8.12 | 8.74 | 10. | 11.24 | 12.50 | 13.74 | 15 lbs. |
| 16 feet | 20 | 22 | 25 | 27 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 | 100 | 110 | 120 | 130 | 140 | 160 | 180 | 200 | 220 | 240 | " |

| | 7/16 x 1 | 1⅛ | 1¼ | 1⅜ | 1½ | 1¾ | 2 | 2¼ | 2½ | 2¾ | 3 | 3¼ | 3½ | 3¾ | 4 | 4¼ | 4½ | 5 | 5½ | 6 | 6½ | 7 | 8 | 9 | 10 | 11 | 12 x 7/16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 foot | 1.45 | 1.64 | 1.82 | 2. | 2.18 | 2.55 | 2.93 | 3.28 | 3.64 | 4. | 4.37 | 4.73 | 5.10 | 5.46 | 5.83 | 6.20 | 6.56 | 7.29 | 8.02 | 8.75 | 9.47 | 10.20 | 11.66 | 13.12 | 14.58 | 16.04 | 17.50 lbs. |
| 16 feet | 23 | 26 | 29 | 32 | 35 | 41 | 47 | 52 | 58 | 64 | 70 | 76 | 82 | 88 | 94 | 99 | 104 | 116 | 124 | 140 | 152 | 164 | 188 | 210 | 234 | 257 | 280 | " |

| | ½ x 1 | 1⅛ | 1¼ | 1⅜ | 1½ | 1¾ | 2 | 2¼ | 2½ | 2¾ | 3 | 3¼ | 3½ | 3¾ | 4 | 4¼ | 4½ | 5 | 5½ | 6 | 6½ | 7 | 8 | 9 | 10 | 11 | 12 x ½ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 foot | 1.66 | 1.87 | 2.01 | 2.29 | 2.50 | 2.91 | 3.33 | 3.75 | 4.16 | 4.58 | 5. | 5.41 | 5.83 | 6.25 | 6.66 | 7.08 | 7.50 | 8.33 | 9.16 | 10. | 10.83 | 11.66 | 13.32 | 15. | 16.66 | 18.32 | 20 lbs. |
| 16 feet | 26 | 30 | 33 | 36 | 40 | 46 | 53 | 60 | 67 | 73 | 80 | 86 | 92 | 100 | 106 | 113 | 120 | 134 | 146 | 160 | 172 | 184 | 212 | 240 | 268 | 292 | 320 | " |

| | 5/8 x 1 | 1⅛ | 1¼ | 1⅜ | 1½ | 1¾ | 2 | 2¼ | 2½ | 2¾ | 3 | 3¼ | 3½ | 3¾ | 4 | 4¼ | 4½ | 5 | 5½ | 6 | 6½ | 7 | 8 | 9 | 10 | 11 | 12 x 5/8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 foot | 2. | 2.34 | 2.60 | 2.86 | 3.15 | 3.64 | 4.16 | 4.68 | 5.20 | 5.72 | 6.25 | 6.77 | 7.29 | 7.81 | 8.33 | 8.85 | 9.37 | 10.41 | 11.45 | 12.50 | 13.54 | 15.62 | 16.66 | 18.14 | 20.82 | 22.90 | 25. lbs. |
| 16 feet | 33 | 37 | 42 | 46 | 50 | 58 | 67 | 75 | 83 | 91 | 100 | 108 | 116 | 125 | 133 | 141 | 150 | 166 | 182 | 200 | 216 | 232 | 266 | 300 | 332 | 364 | 400 | " |

| | ¾ x 1 | 1⅛ | 1¼ | 1⅜ | 1½ | 1¾ | 2 | 2¼ | 2½ | 2¾ | 3 | 3¼ | 3½ | 3¾ | 4 | 4¼ | 4½ | 5 | 5½ | 6 | 6½ | 7 | 8 | 9 | 10 | 11 | 12 x ¾ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 foot | 2.50 | 2.81 | 3.12 | 3.43 | 3.75 | 4.37 | 5. | 5.62 | 6.25 | 6.87 | 7.50 | 8.12 | 8.75 | 9.37 | 10. | 10.62 | 11.25 | 12.50 | 13.75 | 15. | 16.25 | 17.50 | 20. | 22.50 | 25. | 26.50 | 30 lbs. |
| 16 feet | 40 | 45 | 50 | 55 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 1.40 | 150 | 160 | 170 | 180 | 200 | 220 | 240 | 260 | 280 | 320 | 360 | 400 | 440 | 480 | " |

| | 7/8 x 1 | 1⅛ | 1¼ | 1⅜ | 1½ | 1⅝ | 1¾ | 2 | 2¼ | 2½ | 2¾ | 3 | 3¼ | 3½ | 3¾ | 4 | 4½ | 5 | 5½ | 6 | 6½ | 7 x ⅞ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 foot | 2.91 | 3.28 | 3.64 | 4. | 4.37 | 4.73 | 5. | 5.86 | 6.56 | 7.29 | 8. | 8.75 | 9.50 | 10.20 | 11. | 11.66 | 13.12 | 15. | 16. | 17. | 19. | 20 lbs. |
| 16 feet | 47 | 53 | 58 | 64 | 70 | 76 | 81 | 93 | 105 | 117 | 128 | 140 | 152 | 163 | 175 | 187 | 210 | 233 | 256 | 280 | 304 | 326 | " |

| | 1 x 1⅛ | 1¼ | 1⅜ | 1½ | 1⅝ | 1¾ | 2 | 2¼ | 2½ | 2¾ | 3 | 3¼ | 3½ | 4 | 4½ | 5 | 5½ | 6 | 7 x 1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 foot | 3.75 | 4.16 | 4.58 | 5. | 5.41 | 5.83 | 6.66 | 7.50 | 8.33 | 9. | 10. | 10 60 | 11.60 | 13. | 15. | 16. | 18. | 20 | lbs. |
| 16 feet | 60 | 66 | 73 | 80 | 86.66 | 93 | 107 | 120 | 133 | 147 | 160 | 173 | 197 | 213 | 240 | 266 | 292 | 320 | " |

# WEIGHTS AND TABLES

## WEIGHT OF CIRCULAR BOILER HEADS

| Diameter | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 | 50 | 54 | 60 | 66 | 70 | 72 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ¼ inch Thick | 37 | 43 | 50 | 57 | 64 | 72 | 80 | 89 | 98 | 107 | 117 | 127 | 139 | 162 | 199½ | 241½ | 271½ | 287 | lbs. |
| 5/16 " " | 47 | 54 | 62 | 71 | 80 | 90 | 100 | 111 | 122 | 134 | 147 | 160 | 173 | 202 | 249½ | 302 | 339½ | 359 | " |
| ⅜ " " | 56 | 65 | 75 | 85 | 96 | 108 | 120 | 133 | 147 | 161 | 176 | 191 | 208½ | 242 | 299 | 362½ | 407½ | 431 | " |
| 7/16 " " | 66½ | 76 | 87 | 99½ | 112 | 125½ | 140 | 155 | 171 | 187 | 205 | 223 | 243 | 283½ | 349 | 422½ | 475 | 502½ | " |
| ½ " " | 75 | 87 | 100 | 113½ | 128 | 143½ | 160 | 177½ | 195½ | 214 | 234 | 258 | 277 | 323 | 399 | 483 | 543 | 574½ | " |

From Steel Plate, ¼ inch 10.16 lbs., 5/16 inch 12.7 lbs., ⅜ inch 15.24 lbs., 7/16 inch 17.78 lbs., ½ inch 20.32 lbs., to the square foot.

## GENERAL RULE FOR DETERMINING THE WEIGHT OF ANY PIECE OF WROUGHT IRON

| | | | |
|---|---|---|---|
| 1 Cubic Foot of Wrought Iron | 480 lbs. | 1 Square Inch, 1 foot Long | 3⅓ lbs. |
| 1 Square Foot, 1 inch Thick | 40 " | 1 Square inch, 1 yard Long | 10 " |

Then to ascertain the weight of any piece of Wrought Iron use the following:

RULE.—Ten times the sectional area in square inches is equal to the weight in lbs. per yard.

## WEIGHT OF SHEET IRON PER SQUARE FOOT IN LBS.

| B. W. G. Nos. | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 24 | 26 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Approximate Decimal | .22 | .208 | .18 | .165 | .148 | .134 | .12 | .109 | .095 | .083 | .072 | .065 | .058 | .040 | .035 | .031 | .028 | .025 | .020 | .015 |
| Pounds | 8.77 | 8.41 | 7.56 | 6.71 | 6.39 | 5.54 | 5.05 | 4.41 | 3.80 | 3.23 | 2.91 | 2.55 | 2.22 | 1.94 | 1.70 | 1.42 | 1.33 | 1.17 | 1.01 | .81 |

## WEIGHT OF SHEET STEEL PER SQUARE FOOT IN LBS.

U. S. Standard Gauge.

| U.S. Gauge Nos. | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Approximate Decimal | .140 | .125 | .109 | .093 | .078 | .070 | .062 | .056 | .05 | .043 | .037 | .034 | .031 | .028 | .025 | .021 | .018 | .017 | .015 |
| Pounds | 5.62 | 5. | 4.37 | 3.75 | 3.12 | 2.81 | 2.5 | 2.25 | 2. | 1.75 | 1.50 | 1.37 | 1.25 | 1.12 | 1. | .875 | .75 | .687 | .625 |

## WEIGHT OF GALVANIZED SHEETS PER SQUARE FOOT IN OUNCES

U. S. Standard Gauge.

| U.S. Gauge Nos. | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ounces | 47.5 | 42.5 | 38.5 | 34.5 | 30.5 | 26.5 | 24.5 | 22.5 | 20.5 | 18.5 | 16.5 | 14.5 | 13.5 | 12.5 | 11.5 | 10.5 |

## RUSSIA SHEET IRON

Size of Sheets 56 inch x 28 inch.

| Russian Gauge Nos. | 8 | 9 | 10 | 11 | 12 | 14 |
|---|---|---|---|---|---|---|
| B. W. G. | 25 | 24 | 24 | 23 | 22 | 21 |
| Pounds to Sheet | 8 | 8½ | 9 | 10 | 11 | 13 |

## WEIGHT OF SHEET ZINC

| Belgian Gauge Nos. | 6 | 7 | 8 | 9 | 10 | 11 | 13 |
|---|---|---|---|---|---|---|---|
| B. W. G. Nos. | 30 | 29 | 27 | 26 | 25 | 24 | 23 |
| Ounces per Square Foot | 7 | 8 | 9 | 10 | 11 | 13 | 15 |
| Pounds per Sheet, 8 x 3 feet | 10 | 11 | 13 | 15 | 17 | 19 | 22 |

## WEIGHT OF ONE SQUARE FOOT OF METALS

Thickness Advancing by Sixteenths of an inch.

| THICKNESS. | Wrought Iron. Specific Weight =1 | Cast Iron. Specific Weight =.9375 | Steel. Specific Weight =1.02 | Copper. Specific Weight =1.16 | Tin. Specific Weight =1.092 | Zinc. Specific Weight =.910 | Brass. Specific Weight =1.052 | Gun Metal. Specific Weight =1.052 | Lead. Specific Weight =1.98 |
|---|---|---|---|---|---|---|---|---|---|
| | lbs. | lbs. | lbs. | lbs. | lbs. | lbs. | lbs. | lbs. | lbs. |
| 1/16 inch | 2.50 | 2.34 | 2.55 | 2.80 | 2.41 | 2.28 | 2.63 | 2.73 | 3.71 |
| 2/16 " | 5.00 | 4.69 | 5.10 | 5.79 | 4.81 | 4.55 | 5.26 | 5.46 | 7.41 |
| 3/16 " | 7.50 | 7.03 | 7.65 | 8.68 | 7.22 | 6.83 | 7.89 | 8.19 | 11.1 |
| 4/16 " | 10.0 | 9.38 | 10.2 | 11.6 | 9.63 | 9.10 | 10.5 | 10.9 | 14.8 |
| 5/16 " | 12.5 | 11.7 | 12.8 | 14.5 | 12.0 | 11.4 | 13.2 | 13.7 | 18.5 |
| 6/16 " | 15.0 | 14.1 | 15.3 | 17.4 | 14.4 | 13.7 | 15.8 | 16.4 | 22.2 |
| 7/16 " | 17.5 | 16.4 | 17.9 | 20.3 | 16.8 | 15.9 | 18.4 | 19.1 | 25.9 |
| 8/16 " | 20.0 | 18.7 | 20.4 | 23.2 | 19.3 | 18.2 | 21.1 | 21.9 | 29.7 |
| 9/16 " | 22.5 | 21.1 | 23.0 | 26.0 | 21.7 | 20.5 | 23.7 | 24.6 | 33.4 |
| 10/16 " | 25.0 | 23.5 | 25.5 | 28.9 | 24.1 | 22.8 | 26.3 | 27.3 | 37.1 |
| 11/16 " | 27.5 | 25.8 | 28.1 | 31.8 | 26.5 | 25.0 | 28.9 | 30.0 | 40.8 |
| 12/16 " | 30.0 | 28.1 | 30.6 | 34.7 | 28.9 | 27.3 | 31.6 | 32.8 | 44.5 |
| 13/16 " | 32.5 | 30.5 | 33.2 | 37.6 | 31.3 | 29.6 | 34.2 | 35.0 | 48.2 |
| 14/16 " | 35.0 | 32.8 | 35.7 | 40.5 | 33.7 | 31.9 | 36.8 | 38.2 | 51.9 |
| 15/16 " | 37.5 | 35.2 | 38.3 | 43.4 | 36.1 | 34.1 | 39.5 | 41.0 | 55.6 |
| 16/16 " | 40.0 | 37.5 | 40.8 | 46.3 | 38.5 | 36.4 | 42.1 | 43.7 | 59.3 |

# NOTES ON STEEL AND IRON

1. The average weight of wrought iron is 480 lbs. per cubic foot. A bar 1 inch square and 3 feet long weighs, therefore, exactly 10 lbs. Hence,

To find the sectional area, given the weight per foot:
Multiply by $\frac{3}{10}$

To find the weight per foot, given the sectional area:
Multiply by $\frac{10}{3}$

2. The weight of steel is 2 per cent. greater than that of wrought iron.

To find the sectional area, given weight per foot:
Divide by 3.4

To find the weight per foot, given sectional area:
Multiply by 3.4

3. The centre load at which a bar of wrought iron 1 inch square and 12 inches centre to centre of points of support will give way is very nearly 1 ton (of 2,210 lbs.). For cast iron this ratio is $\frac{1}{4000}$ for tension, but becomes variable for compression.

4. The contraction or expansion of wrought iron under changes of temperature is about $\frac{1}{10000}$ of its length for a variation of 15° Fahrenheit.

The stress thus induced, if the ends are held rigidly fixed, will be about 1 ton (of 2,240 lbs.) per square inch of cross section.

5. The coefficient of expansion of wrought iron for 100° Fahrenheit is 0.000686. Therefore, for a variation in temperature of 125°, a bar of wrought iron 100 feet long will expand or contract 1.029 inches. Conversely, a change in length of 1 inch per 100 feet would be produced by a variation in temperature of 121.5° Fahrenheit.

6. The melting point of iron and steel is about as follows:

| | | |
|---|---|---|
| Wrought Iron | 3000° | Fahrenheit. |
| Cast Iron | 2000° | " |
| Steel | 2400° | " |

7. The welding heat of wrought iron is 2733° Fahrenheit.

## TO TEST STEEL AND IRON

Nitric acid will produce a black spot on steel; the darker the spot the harder the steel. Iron, on the contrary, remains bright if touched with nitric acid.

Good steel in its soft state has a curved fracture and a uniform grey lustre; in its hard state a dull, silvery, uniform white. Cracks, threads, or sparkling particles denote bad quality. Good steel will not bear a white heat without falling to pieces, and will crumble under the hammer at a bright red heat, while at a medium heat it may be drawn to a fine point.

## TO FIND THE NUMBER OF SQUARE FEET IN A CIRCLE

Square the diameter and multiply by decimal .7854.

## TO RESTORE BURNT STEEL AND WELD IT

Four lbs. white sand, pulverized fine, ½ lb. salammoniac, ¼ lb. copperas, ½ lb. rosin, all pulverized and finely mixed, then used as borax.

## RECEIPT FOR WELDING STEEL AND IRON

Eight lbs. of sand, 4 oz. salt, 2 oz. copperas, ½ oz. salammoniac, pulverize, mix together, and use the same as any loam.

## CASE-HARDENING

Horn, hoof, bone-dust, or shreds of leather, heated together with the article to be case-hardened, in an iron box, to a blood-red heat, then immerse the article in cold water. Some engineers cut up the shreds, etc., fine, and mix them with white wine vinegar and salt.

## TO MEND BROKEN IRON

Zinc dissolved in mercury; then take the mixture and stick the broken iron together and keep it pressed close till dry.

## TEMPERING STEEL

| Color. | Purpose. | Temperature. | Alloy whose fusing point is of the same temp. | |
|---|---|---|---|---|
| | | Fahr. | Tin. | Lead. |
| Light straw.. | Turning tools for metal..... ..... | 430° | 1 to | 1⅔ |
| Dark straw .. | Wood tools, taps and dies ..... | 470° | 1 to | 2½ |
| Brown yellow | Hatchets, chipping chisels ..... | 500° | 1 to | 4½ |
| Dark purple.. | Springs, etc..... | 550° | 1 to | 12 |

## TO TEMPER SPRINGS, ETC

One-quarter lb. alum, ¼ lb. borax, ¼ lb. prussiate potash, dissolved in 1 gallon of hot water, then add 5 gallons of oil (linseed oil is best), ½ gallon of sand, ¼ lb. pulverized charcoal, when well mixed heat and dry as usual.

## BRICK-WORK AND MASONRY

Stone-work is estimated by the perch of 25 cubic feet. Brick-work is estimated by the thousand, and for various thicknesses of wall runs as follows:

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 9 | inch wall, | 1 | brick | in thickness, | 14 | bricks | per | superficial | foot. |
| 13 | " | 1½ | " | " | 21 | " | " | " | |
| 18 | " | 2 | " | " | 28 | " | " | " | |
| 22 | " | 2½ | " | " | 35 | " | " | " | |

## WEIGHT OF SKYLIGHT AND FLOOR GLASS PER SQUARE FOOT

| Thickness in inches | ⅛ | 3/16 | ¼ | ⅜ | ½ | ⅝ | ¾ | 1 |
|---|---|---|---|---|---|---|---|---|
| Weight in pounds | 1.75 | 2.62 | 3.50 | 5.35 | 7.00 | 8.75 | 10.50 | 14.00 |

## CAPACITY OF CYLINDRICAL CISTERNS

For each Foot of Depth.

| Diameter ..... | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 12 | 14 | 15 | 20 | 30 | feet. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Capacity ..... | 23.5 | 52.9 | 94.0 | 146.9 | 211.5 | 287.9 | 376.0 | 475.9 | 587.5 | 846.0 | 1151.5 | 1321.9 | 2350.1 | 5287.7 | gallons. |
| Weight ..... | 196 | 441 | 784 | 1225 | 1764 | 2401 | 3135 | 3968 | 4899 | 7054 | 9602 | 11023 | 19596 | 44093 | pounds. |

# WEIGHTS AND TABLES

## LENGTH AND WEIGHT OF B B B IRON TACKS

| Ounces | 1 | 1½ | 2 | 2½ | 3 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length | 7/16 | 7/16 | 1/4 | 1/4 | 1/4 | 5/16 | 5/16 | 3/8 | 3/8 | 7/16 | 1/2 | 1/2 | 9/16 | 9/16 | 1 | 1 1/4 | inch. |
| No. in a Pound | 8885 | 7025 | 4805 | 4080 | 3905 | 2435 | 2145 | 1715 | 1375 | 1155 | 975 | 815 | 815 | 705 | 685 | 525 | |

Numbers given are only approximate, does not include any other kind, and made from standard gauge of plate for each respective size.

## AVERAGE NUMBER OF WIRE AND CUT NAILS IN A POUND

| Length | 1 | 1¼ | 1½ | 1¾ | 2 | 2¼ | 2½ | 2¾ | 3 | 3½ | 4 | 5 | 6 | inch. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Wire | 876 | 568 | 357 | 235 | 204 | 134 | 112 | 90 | 69 | 43 | 31 | 18 | 11 | in lb. |
| Cut AP. | 850 | 550 | 350 | 230 | 180 | 140 | 100 | 80 | 65 | 40 | 31 | 18 | 12 | " |

## APPROXIMATE WEIGHT OF 100 MACHINE BOLTS

In Pounds, with Square Heads and Nuts, Length Under Head.

| Diameter | ¼ | 5/16 | 3/8 | 7/16 | ½ | 9/16 | 5/8 | ¾ | 7/8 | 1 |
|---|---|---|---|---|---|---|---|---|---|---|
| Length, Inches. | Lbs. | Lbs. | Lbs. | Lbs. | Lbs. | Lbs. | Lbs. | Lbs. | Lbs. | Lbs. |
| 1 | 3.25 | 6.13 | 8.75 | 12.88 | 18.75 | ..... | ..... | ..... | ..... | ..... |
| 1¼ | 3.56 | 6.50 | 9.53 | 13.91 | 20.06 | ..... | ..... | ..... | ..... | ..... |
| 1½ | 3.88 | 7.00 | 10.31 | 14.94 | 21.37 | 29.50 | 38.50 | ..... | ..... | ..... |
| 1¾ | 4.19 | 7.50 | 11.09 | 15.97 | 22.68 | 30.50 | 40.57 | ..... | ..... | ..... |
| 2 | 4.56 | 8.00 | 11.88 | 17.00 | 24.00 | 31.50 | 42.65 | 65.50 | 108.00 | ..... |
| 2¼ | 4.88 | 8.50 | 12.16 | 18.06 | 25.31 | 33.29 | 44.55 | 68.81 | 112.25 | ..... |
| 2½ | 5.13 | 9.00 | 13.44 | 19.12 | 26.62 | 35.08 | 46.45 | 72.12 | 116.50 | 175.00 |
| 2¾ | 5.44 | 9.50 | 14.22 | 20.18 | 27.93 | 36.87 | 48.35 | 75.43 | 121.75 | 180.00 |
| 3 | 5.75 | 10.00 | 15.00 | 21 25 | 29.25 | 38.67 | 50.25 | 78.75 | 126.00 | 185.00 |
| 3¼ | 6.06 | 10.50 | 15.67 | 22.31 | 30.56 | 40.46 | 52.84 | 82.06 | 130.13 | 190.50 |
| 3½ | 6.38 | 11.00 | 16.34 | 23.37 | 31.87 | 42.25 | 55 43 | 85.37 | 134 25 | 196.00 |
| 3¾ | 6.70 | 11.50 | 17.01 | 24.43 | 33.18 | 44.04 | 58.03 | 88.68 | 138.38 | 201.50 |
| 4 | 7.02 | 12 00 | 17.67 | 25.50 | 34.50 | 45.84 | 60.63 | 91.99 | 142.50 | 207.00 |
| 4½ | 7.66 | 13.00 | 19.00 | 27.63 | 37.13 | 49.42 | 64 88 | 97.99 | 151.00 | 218.00 |
| 5 | 8.30 | 14.00 | 20.33 | 29.75 | 39 75 | 53.00 | 69.13 | 103.99 | 159.55 | 229.00 |
| 5½ | 8.94 | 15.00 | 21.66 | 31.88 | 42.38 | 56.58 | 73.38 | 109.99 | 168.00 | 240.00 |
| 6 | 9.58 | 16.00 | 23.00 | 34 00 | 45.00 | 60.17 | 77 63 | 116.00 | 176.60 | 251.00 |
| 6½ | 10.22 | 17.00 | 24.58 | 36.13 | 47.62 | 63.69 | 81.88 | 122.00 | 185.00 | 262.00 |
| 7 | 10.86 | 18.00 | 26.17 | 38.25 | 50.24 | 67.21 | 86.13 | 128.00 | 193.65 | 273.00 |
| 7½ | 11.50 | 19.00 | 27.75 | 40.38 | 52.86 | 70.73 | 90.38 | 134.00 | 202.00 | 284.00 |
| 8 | 12.14 | 20.00 | 29.33 | 42.50 | 55.48 | 74.24 | 94.61 | 140.00 | 210.70 | 295.00 |
| 9 | 12.78 | 22.00 | 32.50 | 46.75 | 60.72 | 81.26 | 103.10 | 152.05 | 227.75 | 317.00 |
| 10 | 14.06 | 24.00 | 35.66 | 51.00 | 66.00 | 88.28 | 111.59 | 164.10 | 244.80 | 339.00 |
| 11 | ..... | 26.00 | 39.83 | 55.25 | 71.75 | 95.30 | 120.08 | 176.15 | 261.85 | 360.00 |
| 12 | ..... | 28.00 | 42.00 | 59.50 | 77.50 | 102.32 | 128.57 | 188.20 | 278.90 | 382.00 |

## TANK RIVETS

Number to the Pound.

| Length, Inches. | 3/16 in. Diam. | | 1/4 in. Diam. | | 5/16 in. Diam | | 3/8 in. Diam. | |
|---|---|---|---|---|---|---|---|---|
| | F. & R. H. | C.S.K. | F. & R. H. | C.S.K. | F. & R.H. | C.S.K. | F. & R.H. | C.S.K. |
| ¾ | 165 | 205 | 103 | ... | .. | .. | .. | .. |
| 7/8 | 152 | 172 | 93 | ... | .. | .. | .. | .. |
| 1 | 140 | 147 | 80 | 108 | 50 | 69 | 31 | 46 |
| 1 1/8 | 125 | 130 | 75 | 94 | 43 | 60 | 28 | 40 |
| 1 1/4 | 103 | 109 | 64 | 75 | 39 | 51 | 23 | 30 |
| 1 3/8 | 91 | 101 | 56 | 68 | 35 | 47 | 21 | 31 |
| 1 | 84 | 93 | 49 | 63 | 32 | 42 | 19 | 28 |
| 1 1/4 | 77 | 85 | 45 | 56 | 31 | 36 | 18 | 24 |
| 1 1/4 | 43 | ... | 42 | 49 | 27 | 34 | 17 | 22 |
| 1 1/2 | 69 | ... | 40 | 47 | 25 | 31 | 16 | 21 |
| 1 1/3 | 63 | ... | 37 | 42 | 24 | 29 | 15 | 20 |
| 1 5/8 | 58 | ... | 35 | 41 | 22 | 27 | 14 | 19 |
| 1 3/4 | 54 | ... | 32 | 39 | 21 | 25 | 13 | 18 |
| 1 7/8 | 50 | ... | 30 | 35 | 20 | 23 | 12 | 17 |
| 2 | 48 | ... | 29 | 33 | 19 | 22 | 11 | 16 |

## BOILER RIVETS

Number in a Keg of 100 Pounds.

| Length, Inches. | ½ inch. | 9/16 inch. | 5/8 inch. | 11/16 inch. | ¾ inch. | 7/8 inch |
|---|---|---|---|---|---|---|
| 1 | 900 | 760 | 560 | 450 | ... | ... |
| 1¼ | 875 | 725 | 530 | 415 | ... | ... |
| 1½ | 800 | 690 | 490 | 389 | 356 | 228 |
| 1¾ | 760 | 650 | 460 | 370 | 329 | 211 |
| 1½ | 720 | 625 | 425 | 357 | 290 | 180 |
| 1⅝ | 710 | 595 | 405 | 340 | 271 | 174 |
| 1¾ | 690 | 550 | 390 | 325 | 264 | 169 |
| 1¼ | 665 | 530 | 375 | 312 | 257 | 165 |
| 2 | 630 | 510 | 360 | 297 | 248 | 156 |
| 2¼ | 590 | 500 | 354 | 289 | 237 | 152 |
| 2¼ | 555 | 490 | 347 | 280 | 232 | 149 |
| 2⅜ | 525 | 475 | 335 | 260 | 219 | 141 |
| 2½ | 500 | 440 | 312 | 242 | 211 | 133 |
| 3 | 460 | 410 | 290 | 224 | 203 | 127 |
| 3¼ | 430 | 380 | 267 | 212 | 190 | 115 |
| 3½ | 410 | 350 | 248 | 201 | 180 | 108 |
| 3¾ | 395 | 335 | 241 | 192 | 162 | 102 |
| 4 | | 326 | 230 | 184 | 153 | 99 |

BOILER RIVETS, ALL SIZES, IN STOCK AND MADE TO ORDER

# SPECIFIC GRAVITIES

## THE FOLLOWING IS A TABLE OF SPECIFIC GRAVITIES

(Water=1.)

| | | | | | |
|---|---|---|---|---|---|
| Acetic Acid | 1.05 | Ether | 0.716 | Oil, olive | 0.915 |
| Alcohol, absolute | 0.792 | Glass, flint | 3.08 | Oil, palm | 0.9 |
| Alcohol, proof | 0.916 | Glass, plate | 2.76 | Oil, rapeseed | 0.914 |
| Aluminium | 2.67 | Gold | 19.245 | Oil, sperm | 0.88 |
| Antimony | 6.71 | Gun metal | 8.46 | Oil, whale | 0.923 |
| Ash, wood | 0.70 | Gutta-percha | 0.98 | Phosphor bronze, cast | 8.80 |
| Asphalte | 2.5 | Gypsum | 2.28 | Pine, white | 0.50 |
| Bismuth | 9.90 | Hydrochloric Acid | 1.2 | Pitch | 1.15 |
| Brass, sheet | 8.44 | India-rubber | 0.93 | Platinum | 21.522 |
| Brass, wire | 8.54 | Iron, wrought | 7.78 | Plumbago | 2.27 |
| Cement, Portland | 1.7 | Lead | 11.36 | Sand, quartz | 2.75 |
| Citric Acid | 1.22 | Lime, quick | 0.84 | Sand, river | 1.88 |
| Clay | 1.9 | Magnesium | 1.74 | Sea-water | 1.03 |
| Coal, anthracite | 1.53 | Manganese | 8.00 | Silver | 10.505 |
| Coal, Newcastle | 1.27 | Mercury | 13.59 | Steel | 8. |
| Coke | 0.74 | Naphtha | 0.848 | Sulphuric acid | 1.84 |
| Concrete, in cement | 2.02 | Nickel, cast | 8.28 | Tallow | 0.94 |
| Concrete, ordinary | 1.9 | Nickel, hammered | 8.67 | Tar | 1.02 |
| Copper, sheet | 8.78 | Oak, English | 0.85 | Tin | 7.400 |
| Copper, wire | 8.9 | Oil, castor | 0.966 | Tin, cast | 7.29 |
| Cork | 0.24 | Oil, linseed | 0.94 | Zinc | 7. |
| Earth | from 1·52 to 2.0 | Oil, neatsfoot | 0.914 | | |

## RELATIVE WEIGHTS OF METALS

| | | | | | |
|---|---|---|---|---|---|
| The weight of bar iron being | 1. | The weight of cast iron being | 1. | The weight of brass being | 1. |
| Cast iron | = .95 | Bar iron | =1.07 | Bar iron | = .92 |
| Steel | =1.02 | Steel | =1.08 | Cast iron | = .86 |
| Brass | =1.09 | Brass | =1.16 | Steel | = .93 |
| Copper | =1.16 | Copper | =1.21 | Copper | =1.05 |
| Lead | =1.48 | Lead | =1.56 | Lead | =1.35 |

## EXPANSION OF METALS—(Faraday)

The Length of the Bar at 32°=1.

| METALS. | At 212° | Expan. per deg. Fah. |
|---|---|---|
| Brass | 1.0019062 | .0000106 |
| Copper | 1.001745 | .0000097 |
| Cast Iron | 1.0011112 | .0000062 |
| Steel | 1.0011899 | .0000066 |
| Wrought Iron | 1.0012575 | .000007 |
| Tin | 1.002 | .0000111 |
| Zinc | 1.002942 | .0000163 |

Almost all bodies expand in equal proportion for each degree between freezing and boiling.

To ascertain the expansion of a body, multiply the dimension of a body by the number of degrees of increase of temperature and then by the expansion per degree.

EXAMPLE.—Required the expansion of a steel rail 30 feet long, with an increase of temperature of 100°.

$30 \times 100 = 3000 \times .0000066 = 0198$ foot $= \frac{1}{4}$ inch.

## SHRINKAGE OF CASTINGS

Patternmakers' rules should be

| For Cast Iron | For Brass | For Lead | For Tin | For Zinc |
|---|---|---|---|---|
| $\frac{1}{8}$ | $\frac{3}{16}$ | $\frac{1}{8}$ | $\frac{1}{32}$ | $\frac{5}{16}$ ths. |

on an inch longer per lineal foot.

## TO FIND THE WEIGHT OF CASTING BY THE WEIGHT OF A PINE PATTERN

Multiply the weight of Pattern

| For Cast Iron | For Brass | For Lead | For Tin | For Zinc |
|---|---|---|---|---|
| by 12. | 13. | 19. | 12.2 | 11.4 |

## REDUCTION FOR ROUND CORE AND CORE PRINTS

RULE.—Multiply the square of the diameter by the length of the core in inches, and the product by 0.017 is the weight of the pine core, to be deducted from the weight of the pattern.

# WEIGHTS AND MEASURES

## MEASURES OF LENGTH

12 inches = 1 foot.
3 feet = 1 yard = 36 inches.
5½ yards = 1 rod = 198 inches = 16½ ft.
40 rods = 1 furlong = 7,920 inches = 660 ft. = 220 yds.
8 furlongs = 1 mile = 63,360 inches = 5,280 ft. = 1,760 yds. = 320 rods.
1 yard = .0005682 mile.

### GUNTER'S CHAIN

7.92 inches = 1 link.
100 links = 1 chain = 4 rods = 66 feet.
80 chains = 1 mile.

### ROPES AND CABLES

6 feet = 1 fathom. 120 fathoms = 1 cable's length.

## MEASURES OF SURFACE

144 square inches = 1 square foot.
9 square feet = 1 square yard = 1,296 square inches.
100 square feet = 1 square (architect's measure).

### LAND

30¼ square yards = 1 square rod.
40 square rods = 1 square rood = 1,210 square yards.
4 square roods = 1 acre = 4,840 square yards.
10 square chains = 160 square rods.
640 acres = 1 square mile = 3,097,600 square yds. = 102,400 square rods = 2,560 square roods.
208.71 feet square = 1 acre.

## MEASURES OF VOLUME

1 gallon liquid measure = 231 cubic inches, contains 8.339 avoirdupois lbs. of distilled water at 39.8° Fahrenheit.
1 gallon dry measure = 268.8 cubic inches.
1 bushel (Winchester) contains 2,150.42 cubic inches or 77.627 lbs. distilled water at 39.8° Fahrenheit.
A heaped bushel contains 2,747.715 cubic inches.

### DRY

2 pints = 1 quart = 67.2 cub. in.
4 quarts = 1 gallon = 8 pints = 268.8 cub. in.
2 gallons = 1 peck = 16 pints = 8 quarts = 537.6 cub. in.
4 pecks = 1 bushel = 64 pints = 32 quarts = 8 gals. = 2,150.42 cubic inches.
1 chaldron = 36 heaped bushels = 57.244 cubic feet.
1 cord of wood = 128 cubic feet.

### LIQUID

4 gills = 1 pint.
2 pints = 1 quart = 8 gills.
4 quarts = 1 gallon = 32 gills = 8 pints.
The Imperial gallon = 277.274 cubic inches, and contains 10 lbs. of distilled water at 62° Fahrenheit = 1.2003 Standard gallon

### FLUID

60 minims = 1 drachm = 57 grains Troy at 39.8° Fahr.
8 drachms = 1 ounce = 480 minims = .9501 ounce Troy at 39.8° Fahrenheit.
16 ounces = 1 pint = 7680 minims = 128 drachms.
8 pints = 1 gallon = 61,440 minims = 1,024 drachms = 1 8 ounces.

## MEASURES OF WEIGHT

### AVOIRDUPOIS

16 drachms = 1 ounce.
16 ounces = 1 pound = 256 drachms.
112 pounds = 1 cwt. = 28 672 drachms = 1,792 ounces.
20 cwt. = 1 ton = 573,440 drachms = 35,840 ounces = 2,240 pounds.
1 pound = 14 ounces, 11 pennyweights., 16 grains Troy, or 7,000 grains.
1 ounce = 18 pennyweights, 5½ grains Troy, or 437½ grains.

### TROY

24 grains = 1 pennyweight.
20 pennyweights = 1 ounce = 480 grains.
12 ounces = 1 pound = 5,760 grains = 240 pennyw'ts.
1 Troy pound = .822857 pounds Avoirdupois.
1 Avoirdupois pound = 1.215278 Troy pound.
175 Troy ounces = 192 ounces Avoirdupois.

### APOTHECARIES'

20 grains = 1 scruple.
3 scruples = 1 drachm = 60 grains.
8 drachms = 1 ounce = 480 grains = 24 scruples.
12 ounces = 1 pound = 5,760 grains = 288 scruples = 96 drachms.
The pound, ounce and grain are the same as in Troy weight.

## METRICAL AND ENGLISH MEASURES

1 metre = 39.37 inches.
1 kilogram = 2.20473 pounds.
1 litre = 1 cubic decimetre = .908 quart dry measure. = 1.0566 quarts liquid measure.
1 kilogram per square millimetre = 1,422 pounds per square inch.
2,000 pounds per square inch = 1.406 kilograms per square millimetre.
1 degree Fahrenheit = 1.8 degree centigrade.

## TABLE SHOWING THE REDUCTION OF FRENCH INTO ENGLISH WEIGHTS

| | | cwt. | qrs. | lbs. | oz. |
|---|---|---|---|---|---|
| ¼ kilogramme or 250 grammes | = | .... | .... | .... | 8¾ |
| ½ kilogramme or 500 grammes | = | .... | .... | 1 | 1⅝ |
| ¾ kilogramme or 750 grammes | = | .... | .... | 1 | 10⅜ |
| 1 kilogramme | = | .... | .... | 2 | 3½ |
| 2 " | = | .... | .... | 4 | 6⅝ |
| 3 " | = | .... | .... | 6 | 9⅞ |
| 4 " | = | .... | .... | 8 | 12⅛ |
| 5 " | = | .... | .... | 11 | .... |
| 6 " | = | .... | .... | 13 | 3½ |
| 7 " | = | .... | .... | 15 | 6⅝ |
| 8 " | = | .... | .... | 17 | 9⅞ |
| 9 " | = | .... | .... | 19 | 12⅛ |
| 10 " | = | .... | .... | 22 | .... |
| 20 " | = | .... | 1 | 16 | 1 |
| 30 " | = | .... | 2 | 10 | 2 |
| 40 " | = | .... | 3 | 4 | 3 |
| 50 " | = | .... | 3 | 26 | 4 |
| 60 " | = | 1 | .... | 20 | 4 |
| 70 " | = | 1 | 1 | 14 | 5 |
| 80 " | = | 1 | 2 | 8 | 6 |
| 90 " | = | 1 | 3 | 2 | 7 |
| 100 " | = | 1 | 3 | 21 | 7 |

| | | tons. | cwt. | qrs. | lbs. |
|---|---|---|---|---|---|
| 200 kilogrammes | = | .... | 3 | 3 | 21 |
| 300 " | = | .... | 5 | 3 | 17 |
| 400 " | = | .... | 7 | 3 | 14 |
| 500 " | = | .... | 9 | 3 | 10 |
| 600 " | = | .... | 11 | 3 | 7 |
| 700 " | = | .... | 13 | 3 | 3 |
| 800 " | = | .... | 15 | 3 | .... |
| 900 " | = | .... | 17 | 2 | 24 |
| 1000 " | = | .... | 19 | 2 | 21 |
| 1015 " | = | 1 (or 2240 lbs.) | | | |
| 2000 " | = | 1 | 19 | 2 | 15 |
| 3000 " | = | 2 | 19 | .... | 6 |
| 4000 " | = | 3 | 18 | 2 | 26 |
| 5000 " | = | 4 | 18 | 1 | 19 |
| 6000 " | = | 5 | 18 | .... | 12 |
| 7000 " | = | 6 | 17 | 3 | 4 |
| 8000 " | = | 7 | 17 | 1 | 21 |
| 9000 " | = | 8 | 17 | .... | 14 |
| 10000 " | = | 9 | 16 | | |

# EQUATION OF PIPES

It is frequently desirable to know what number of one-sized pipes will be equal in capacity to another given pipe for delivery of steam, air or water. At the same velocity of flow two pipes deliver as the squares of their internal diameters, but the same head will not produce the same velocity in pipes of different sizes or lengths, the difference being usually stated to vary as the square root of the fifth power of the diameter. The friction of a fluid within itself is very slight, and therefore the main resistance to flow is the friction upon the sides of the conduit. This extends to a limited distance, and is, of course, greater in proportion to the contents of a small pipe than of a large. It may be approximated in a given pipe by a constant multiplied by the diameter, or the ratio of flow found by dividing some power of the diameter by the diameter increased by a constant. Careful comparison of a large number of experiments, by different investigators, has developed the following as a close approximation to the relative flow in pipes of different sizes under similar conditions

$$W \propto \sqrt{\frac{d^5}{d+3.6}} \quad \text{or,} \quad \sqrt{\frac{d^5}{d+3.6}}$$

W being the weight of fluid delivered in a given time, and $d$ being the internal diameter in inches.

The diameters of "standard" steam and gas pipe, however, vary from the nominal diameters, and in applying this rule it is necessary to take the true measurements, which are given in the following table:

## TABLE OF STANDARD SIZES, STEAM AND GAS PIPES

| Size, inches. | Diameter. | | Size, inches. | Diameter. | | Size, inches. | Diameter. | |
|---|---|---|---|---|---|---|---|---|
| | Internal. | External. | | Internal. | External. | | Internal. | External. |
| ¼ .... | .27 | .40 | 2½ .... | 2.46 | 2.87 | 9.... | 8.94 | 9.62 |
| ⅜ .... | .36 | .54 | 3 .... | 3.06 | 3.5 | 10.... | 10.02 | 10.75 |
| ½ ... | .49 | .67 | 3½ .... | 3.54 | 4 | 11.... | 11 | 11.75 |
| ¾ .... | .62 | .84 | 4 .... | 4.02 | 4.5 | 12.... | 12 | 12.75 |
| 1 .... | .82 | 1.05 | 4½ .... | 4.50 | 5 | 13.... | 13.25 | 14 |
| 1¼ .... | 1.04 | 1.31 | 5 .... | 5.04 | 5.56 | 14.... | 14.25 | 15 |
| 1½ .... | 1.38 | 1.66 | 6 .... | 6.06 | 6.62 | 15.... | 15.43 | 16 |
| 1¾ .... | 1.61 | 1.90 | 7 .... | 7.02 | 7.62 | 16.... | 16.4 | 17 |
| 2 .... | 2.05 | 2.37 | 8 .... | 7.98 | 8.62 | 17.... | 17.32 | 18 |

The table below gives the number of pipes of one size required to equal in delivery other larger pipes of same length and under same conditions. The upper portion above the diagonal line of blanks pertains to "standard" steam and gas pipes, while the lower portion is for pipes of the *actual* internal diameters given. The figures given in the table opposite the intersection of any two sizes is the number of the smaller sized pipes required to equal one of the larger. Thus, it requires 20 standard 2-inch pipes to equal one standard 7-inch pipe.

## TABLE OF EQUATION OF PIPES

### STANDARD STEAM AND GAS PIPES

| Dia. | ¼ | ⅜ | ½ | ¾ | 1 | 1¼ | 1½ | 2 | 2½ | 3 | 3½ | 4 | 4½ | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | Dia. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ¼ | ——— | 2.27 | 4.88 | 15.8 | 31.7 | 52.9 | 96.9 | 205 | 377 | 620 | 918 | 1,292 | 1,767 | 2,488 | 3,014 | 3,780 | 4,904 | 5,927 | 7,821 | 8,535 | 9,717 | ¼ |
| ⅜ | 2.60 | ——— | 2 05 | 6.97 | 14.0 | 23.3 | 42.5 | 90.4 | 166 | 273 | 405 | 569 | 779 | 1,096 | 1,328 | 1,668 | 2,161 | 2,615 | 3,226 | 3,761 | 4,282 | ⅜ |
| ½ | 7.55 | 2.90 | ——— | 3.45 | 6.82 | 11.4 | 20.9 | 44.1 | 81.1 | 133 | 198 | 278 | 380 | 536 | 649 | 815 | 1,070 | 1,263 | 1,576 | 1,837 | 2,092 | ½ |
| ¾ | 24.2 | 9.30 | 3.20 | ——— | 1.20 | 3.34 | 6.13 | 13.0 | 23.8 | 39.2 | 58.1 | 81.7 | 112 | 157 | 190 | 239 | 310 | 375 | 463 | 539 | 614 | ¾ |
| 1 | 54 8 | 21.0 | 7.25 | 2.26 | ——— | 1.67 | 3.06 | 6.47 | 11.9 | 19.6 | 29.0 | 40.8 | 55.8 | 78.5 | 95.1 | 119 | 155 | 187 | 231 | 269 | 307 | 1 |
| 1¼ | 102 | 39.4 | 13.6 | 4.23 | 1.87 | ——— | 1.83 | 3.87 | 7.12 | 11.7 | 17.4 | 24.4 | 33.4 | 47.0 | 56.9 | 71.5 | 92.6 | 112 | 138 | 161 | 184 | 1¼ |
| 1½ | 170 | 65.4 | 22 6 | 7.03 | 3 11 | 1.66 | ——— | 2.12 | 3.89 | 6 39 | 9.48 | 13 3 | 20.9 | 23.7 | 31.2 | 39.1 | 50.6 | 61.1 | 75.5 | 88.0 | 100 | 1½ |
| 2 | 376 | 144 | 49.8 | 15.5 | 6.87 | 3.67 | 2.21 | ——— | 1.84 | 3.02 | 4.48 | 6.30 | 8.61 | 12.1 | 14.7 | 18.5 | 23.9 | 28.9 | 35.7 | 41.6 | 47.4 | 2 |
| 2½ | 680 | 263 | 90.9 | 28.3 | 12.5 | 6.70 | 4.03 | 1.83 | ——— | 1.65 | 2.44 | 3.43 | 4.69 | 6 60 | 8.00 | 10.0 | 13.0 | 15.7 | 19.4 | 22.6 | 25.8 | 2½ |
| 3 | 1,116 | 429 | 148 | 46.0 | 20 4 | 10.9 | 6.56 | 2.97 | 1.63 | ——— | 1.48 | 2.09 | 2.85 | 4.02 | 4.86 | 6.11 | 7.91 | 9.56 | 11.8 | 13.8 | 15.6 | 3 |
| 4 | 1,707 | 656 | 226 | 70.5 | 31.2 | 16.6 | 10.0 | 4.54 | 2.49 | 1.51 | ——— | 1.41 | 1.93 | 2.71 | 3.28 | 4.12 | 5.34 | 6.45 | 7.97 | 9.31 | 10.6 | 4 |
| 5 | 2,435 | 936 | 322 | 101 | 44.5 | 23.8 | 14.3 | 6 48 | 3.54 | 2 18 | 1.43 | ——— | 1.35 | 1.93 | 2.33 | 2.92 | 3.79 | 4.57 | 5.67 | 6.60 | 7.52 | 5 |
| 6 | 3,335 | 1,281 | 440 | 137 | 60.8 | 32.5 | 19.5 | 8.85 | 4.85 | 2.98 | 1.95 | 1.37 | ——— | 1.41 | 1 71 | 2.14 | 2.77 | 3.35 | 4.14 | 4.83 | 5.50 | 6 |
| 7 | 4,393 | 1,688 | 582 | 181 | 80.4 | 42.9 | 25.8 | 11.7 | 6.40 | 3.93 | 2 57 | 1.80 | 1.32 | ——— | 1.21 | 1.52 | 1.97 | 2.38 | 2.94 | 3.43 | 3.91 | 7 |
| 8 | 5,642 | 2,168 | 747 | 233 | 103 | 55.1 | 33.1 | 15.0 | 8.22 | 5.05 | 3.31 | 2.32 | 1.70 | 1.28 | ——— | 1.26 | 1.63 | 1.88 | 2.43 | 2.83 | 3.22 | 8 |
| 9 | 7,087 | 2,723 | 938 | 293 | 129 | 69.2 | 41.6 | 18.8 | 10.3 | 6.34 | 4.15 | 2.91 | 2.13 | 1.61 | 1.26 | ——— | 1.30 | 1.57 | 1.93 | 2.26 | 2.58 | 9 |
| 10 | 8,657 | 3,326 | 1,146 | 358 | 158 | 84.5 | 50.7 | 23.0 | 12.6 | 7.75 | 5.07 | 3.56 | 2.60 | 1.98 | 1.53 | 1.22 | ——— | 1.21 | 1.49 | 1.74 | 1.98 | 10 |
| 11 | 10,600 | 4.070 | 1,403 | 438 | 193 | 103 | 62.2 | 28.2 | 15.4 | 9.48 | 6.21 | 4.35 | 3.18 | 2.41 | 1.88 | 1.50 | 1.22 | ——— | 1.24 | 1.44 | 1.64 | 11 |
| 12 | 12,824 | 4.927 | 1,698 | 530 | 234 | 125 | 75.3 | 34.1 | 18 7 | 11.5 | 7.52 | 5.27 | 3.85 | 2.92 | 2.27 | 1.81 | 1.48 | 1.21 | ——— | 1.17 | 1.35 | 12 |
| 13 | 14,978 | 5,758 | 1,984 | 619 | 274 | 146 | 88.0 | 39.9 | 21.8 | 13.4 | 8,78 | 6 15 | 4.51 | 3.41 | 2.66 | 2.12 | 1.73 | 1.42 | 1.18 | ——— | 1.14 | 13 |
| 14 | 17,537 | 6,738 | 2 322 | 724 | 320 | 171 | 103 | 46.6 | 25.6 | 15 7 | 10.3 | 7 20 | 5.27 | 3 99 | 3.11 | 2.47 | 2.03 | 1.66 | 1.37 | 1.17 | ——— | 14 |
| 15 | 20,327 | 7,810 | 2,691 | 840 | 371 | 198 | 119 | 54.1 | 29.6 | 18.2 | 11.9 | 8,35 | 6.11 | 4.63 | 3.60 | 2 87 | 2.35 | 1.92 | 1.59 | 1.36 | 1.16 | 15 |
| 16 | 26,676 | 10,249 | 3,532 | 1,102 | 487 | 260 | 157 | 70.9 | 38.9 | 23.9 | 15.6 | 10.9 | 8.02 | 6.07 | 4.73 | 3,76 | 3.08 | 2.52 | 2.08 | 1.78 | 1.52 | 16 |
| 24 | 42,624 | 16,376 | 5,644 | 1,761 | 778 | 416 | 250 | 113 | 62 1 | 38.2 | 25.0 | 17.5 | 12.8 | 9.70 | 7.55 | 6.01 | 4 92 | 4.02 | 3.32 | 2.84 | 2.43 | 24 |
| 30 | 75,453 | 28,990 | 9,990 | 3,117 | 1,378 | 735 | 443 | 201 | 110 | 67.6 | 44.2 | 31.0 | 22.7 | 17.2 | 13.4 | 10.7 | 8.72 | 7.14 | 5.88 | 5.03 | 4.30 | 30 |
| 36 | 120,100 | 46,143 | 15,902 | 4,961 | 2.193 | 1,172 | 705 | 319 | 175 | 108 | 70.4 | 49.3 | 36.1 | 27.3 | 21.3 | 16.9 | 13.9 | 11.3 | 9.37 | 8.01 | 6.85 | 36 |
| 42 | 177,724 | 68,282 | 23,531 | 7,341 | 3,245 | 1,734 | 1,044 | 473 | 259 | 159 | 104 | 73.0 | 53.4 | 40.5 | 31.5 | 25.1 | 20.5 | 16.8 | 13.9 | 11.9 | 10.1 | 42 |
| 48 | 249,351 | 95,818 | 33.020 | 10,301 | 4,554 | 2,434 | 1,465 | 663 | 363 | 223 | 146 | 102 | 75.0 | 56.8 | 44.2 | 35.2 | 28,8 | 23.5 | 19.4 | 16.6 | 14.2 | 48 |
| Dia. | ¼ | ⅜ | ½ | ¾ | 1 | 1¼ | 1½ | 2 | 2½ | 3 | 3½ | 4 | 4½ | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | Dia. |

### ACTUAL INTERNAL DIAMETERS

rue measure
le:

AND GAS

| Diameter. | |
|---|---|
| Internal. | External. |
| 8.94 | 9.62 |
| 10.02 | 10.75 |
| 11 | 11.75 |
| 12 | 12.75 |
| 13.25 | 14 |
| 14.25 | 15 |
| 15.43 | 16 |
| 16.4 | 17 |
| 17.32 | 18 |

pipes of one
arger pipes of
The upper
s pertains to
he lower por-
meters given.
e intersection
ler sized pipes
it requires 20
d 7-inch pipe.

| 5 | 16 | 17 | Dia. |
|---|---|---|---|
| | | | |
| 218,535 | 9,717 | | ½ |
| 263,761 | 4,282 | | ¾ |
| 761,837 | 2,092 | | 1 |
| 83 539 | 614 | | 1¼ |
| 31 269 | 307 | | 2 |
| 88 161 | 184 | | 2½ |
| 5 88.0 | 100 | | 3 |
| 7 41.6 | 47.4 | | 4 |
| 4 22.6 | 25.8 | | 5 |
| 8 13.8 | 15.6 | | 6 |
| 97 9.31 | 10.6 | | 7 |
| 37 6.60 | 7.52 | | 8 |
| 14 4.83 | 5.50 | | 9 |
| 94 3.43 | 3.91 | | 10 |
| 43 2.83 | 3.22 | | 11 |
| 93 2.26 | 2.58 | | 12 |
| 49 1.74 | 1.98 | | 13 |
| 24 1.44 | 1.64 | | 14 |
| – 1.17 | 1.35 | | 15 |
| 18 —— | 1.14 | | 16 |
| 37 1.17 | —— | | |
| 59 1.36 | 1.16 | | |
| 08 1.78 | 1.52 | | |
| 32 2.84 | 2.43 | | |
| 88 5.03 | 4.30 | | |
| 37 8.01 | 6.85 | | |
| 9 11.9 | 10.1 | | |
| 4 16.6 | 14.2 | | |
| | | | |
| 5 | 16 | 17 | Dia. |

